Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

REPORT

FOR THE FISCAL YEAR

1982/83

ISSN 0706-1897

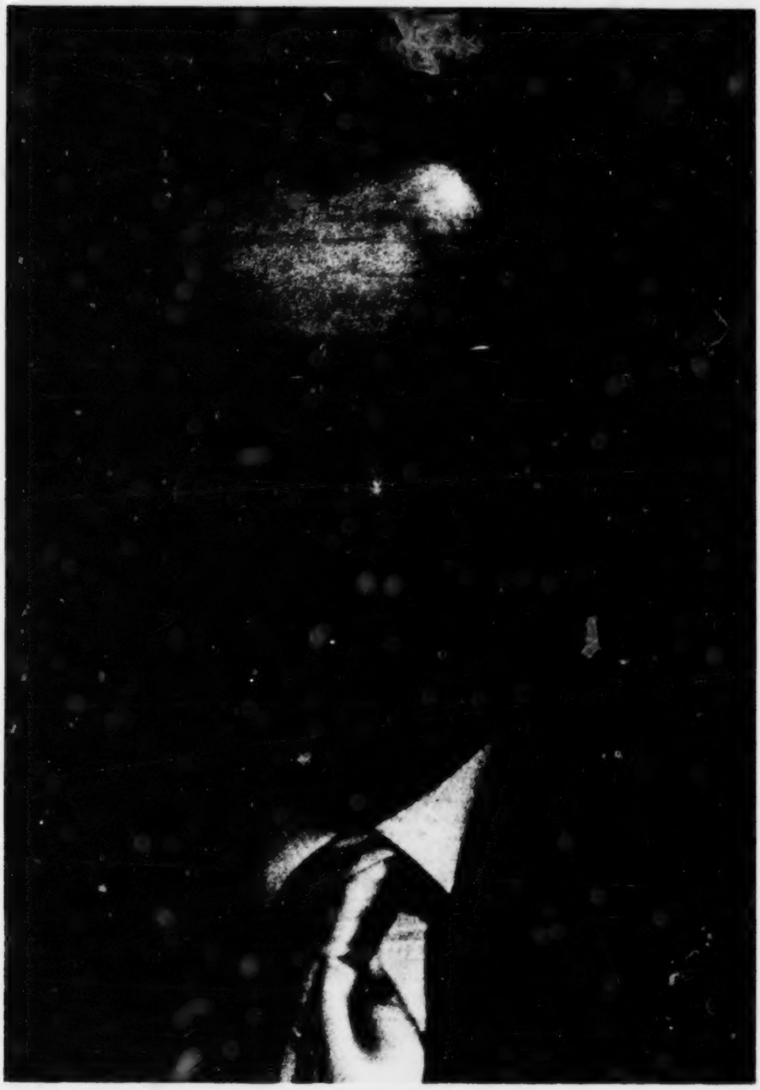
To the Honourable Robert G. Rogers,
Lieutenant Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I respectfully submit the Annual Report of the Ministry of Transportation and Highways for the fiscal year ended March 31, 1983 in compliance with the provisions of the Ministry of Transportation and Highways Act.

ALEX. V. FRASER
Minister of Transportation and Highways

Office of the Minister of
Transportation and Highways
Parliament Buildings, July 31, 1983



The Honourable Alex. V. Fraser,
Minister of Transportation and Highways

Victoria, B.C. July 8, 1983

The Honourable Alex. V. Fraser,
Minister of Transportation
and Highways,
Parliament Buildings,
Victoria, B.C.

Sir:

I am pleased and honoured to present the Annual Report of this Ministry for the fiscal year ended March 31, 1983.

General comments on the year's activity follow with identification of senior officials.

The main body of the report identifies the various branches and their directors with branch reports and statistics.

Respectfully submitted,
R.G. HARVEY
Deputy Minister

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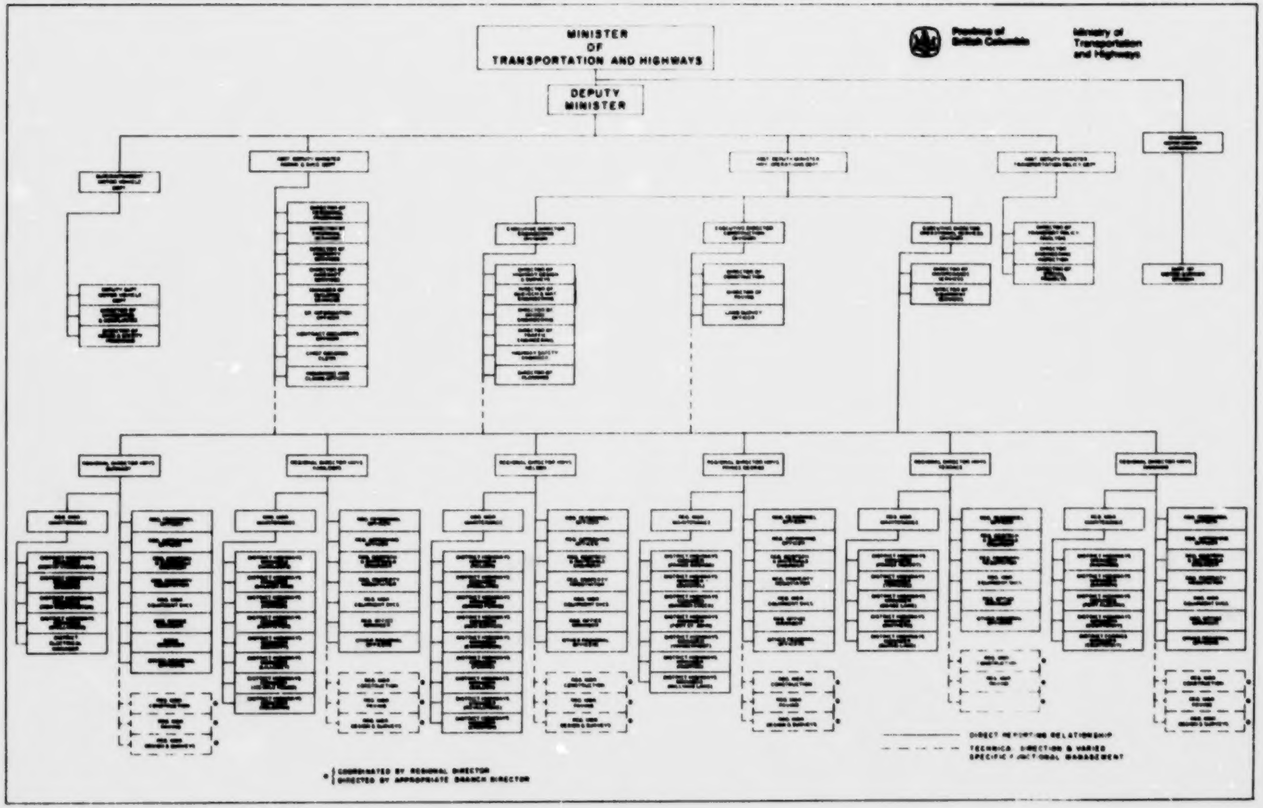

MINISTER OF TRANSPORTATION AND HIGHWAYS
DEPUTY MINISTER
Province of British Columbia
Ministry of Transportation and Highways
DIRECT REPORTING RELATIONSHIP
TECHNICAL DIRECTION & VARIED SPECIFIC FUNCTIONAL MANAGEMENT
COORDINATED BY REGIONAL DIRECTOR
DIRECTED BY APPROPRIATE BRANCH DIRECTOR

ADMINISTRATION AND SERVICES DEPARTMENT

A.E. Rhodes, Assistant Deputy Minister

Even with the restraint program in place the Ministry's supplementary highway construction program in the early part of 1983 and various activities and other services in administration programs kept the department busy in the 1982/83 fiscal year.

The full time work force in the Ministry was 7,031 during the 1982/83 fiscal year.

The Ministry also provided seasonal work for auxiliary employees and this reached a peak of 1,880 persons including 119 students in August, 1982.

The accident frequency rate showed an encouraging decline in the past fiscal year reduced to 33.4 accidents per million man hours in 1982 from 36.3 in 1981.

Increased ambulance role of the Ministry's Air Services Branch was reflected in the figures for 1982/83. A total of 1,359 ambulance flights were made compared to 675 in 1981/82 an increase of 101.3 per cent. Total aircraft flying hours was 6,460.5 and the total number of passengers flown was 10,615.

The total cost of right-of-way acquisition in 1982/83 was $22,219,816. The number of settlements totalled 630 and there were 2,354 still open and under negotiations.

The government's restraint policy has slowed the Ministry yard and building improvement program but a significant number of projects were still carried out. First phase of computerizing a complete inventory of 232 250 square metres of Ministry occupied space has been completed and the second phase is underway.

Information Services wrote and distributed 395 news releases and handled several important advertising campaigns involving winter driving safety and other public service programs.

Reports from the Insurance and Claims Branch show a significant drop in traffic accidents involving vehicles owned by or leased to the government from 2,145 in 1981/82 to 1,597 in 1982/83.

Additional statistics and information for each Administration and Services Department branch appear in the individual directors' reports elsewhere in this volume.

HIGHWAYS OPERATIONS DEPARTMENT

T.R. Johnson, P. Eng., Assistant Deputy Minister

Engineering - M.G. Elston, P. Eng., Executive Director

Design and survey work for 1982/83 involved 310 projects representing 1 916 kilometres of two- and four-lane highways. Included were continuing work on the Annacis Project, Coquihalla and Okanagan Highways.

Geotechnical and Materials Testing Branch completed investigations of 845 projects including geotechnical highway design, foundation investigation and design, stability analyses, geotechnical hazard evaluations, aggregate prospecting and testing, pavement evaluation, quality control and materials testing.

A $35,950,000 bridge program was completed by the bridge branch including Colony Farm Overhead and structures on the Mica Access Highway and Northeast Coal access road.

The Planning Branch continued the 1981/82 program to develop network plans for 75 communities and initiated a further 25 during the 1982/83 fiscal year and carried out a number of traffic and road use studies including licence plate surveys, vehicle occupancy counts, intersection movements, roadside interviews, vehicle classification counts and trip generation studies.

Construction - R.G. White, P.Eng., Executive Director

During 1982/83, 35 major grading projects were active. 99 km of two-lane and 57 km of four-lane construction were completed at a cost of $91,000,000.

25 paving contracts were active during 1982/83. 730 lane kilometres were paved with asphalt concrete and 880 lane kilometres were surface treated.

During the fiscal year, 360 km of highway right of way were defined by legal survey.

Operations - P.J. Carr, P.Eng., Executive Director

While the government's continuing restraint program resulted in reduction of some maintenance activities the overall budget for 1982/83 was expected to be about 8.5% higher than that of the previous year.

The highway system was hit by a number of emergency situations throughout the year as the result of unusually heavy rains. Highway 99 north from Horseshoe Bay, sections of the central interior highway and Highway 95 south of Golden all experienced mud slides, washouts and bridge damage. Prompt and capable actions by Ministry crews helped keep damage and closures to a minimum.

With some reduction in budget the Ministry's maintenance program, the minor betterment program and the roadside development programs were all carried out successfully.

The Ministry's ferry fleet carried 3,798,560 vehicles and 8,503,537 passengers, down 3.7% and 3.9% respectively from the previous year. The former CPR vessel M.V. Princess of Vancouver entered service on the Comox-Powell River run on November 20, 1982 after an extensive refit.

More details and statistics of engineering, construction and operations are contained in the individual director' reports.

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister

Despite fiscal restraints, the year under report was marked as one of significant initiatives and achievements for the Department in fulfilling its mandate to encourage a balanced mix of transportation services for British Columbia.

Significant activities included these:

A major study was completed with Transport Canada to investigate marine facilities in British Columbia and to identify requirements to the year 2000.

New federal ports legislation was reviewed and representations were made to the federal government.

The Ministry responded to the federal government's proposal to eliminate the Crow Rate and to resolve railway capacity problems in Western Canada. The Province supported the general direction of the program while calling for changes in specific areas affecting British Columbia.

The Ministry participated in a program with the British Columbia Railway to refurbish railway passenger equipment. A fully refurbished car was placed into service in October, 1982.

A total of $1,550,000 was spent on 14 grants awarded by the Air Transport Assistant Program for upgrading of community airports throughout the Province.

Representations were made to Ottawa, calling for a review of the Canadian Transport Commission decision to ground Air B.C.'s service between Victoria and Vancouver airports and to the Canadian Transport Commission for hearings into northern air service problems in the Prince Rupert/Prince George/Dawson Creek corridor.

Significant progress was made with Transport Canada in the technical evaluation of the new Microwave Landing System (MLS) for its potential use at Nanaimo's Cassidy Airport.

In cooperation with the Canadian Transport Commission, Transport Canada and the other western provinces, the Division sponsored the first phase of a study of railway capacity in the Lower Mainland. This program deals with railway capacity in the next ten years in light of the expected growth in exports through Vancouver in that period.

The B.C. Research Council was retained to develop traffic forecasts as a second stage of the Vancouver Island Transportation Program.

Possible transportation development in Northwest B.C. was investigated by the Transport Policy Analysis Branch as input to the inter-Ministry study of development potential in that region.

MOTOR VEHICLE DEPARTMENT

R.G. Whitlock, Superintendent

The Motor Vehicle Department is responsible for administering a wide range of programs which include responsibilities for vehicle and driver licencing, vehicle standards and compliance, and safety programs.

During the 1982/83 fiscal year the Department made every effort to improve operations, customer service and motorist protection, despite the need for fiscal restraints.

Typical of the Department's activities in these areas were as follows:

A new driver safety program was introduced in an effort to reduce accidents among new drivers. Changes were made in the areas of testing, training, and in the licencing of new drivers.

Stiffer penalties for errant drivers, based on recommendations of the Motor Vehicle Department Task Force, were included in Motor Vehicle Act Amendments passed by the Legislature.

The Department was successful in initiating through the B.C. Systems Corporation and the Insurance Corporation of British Columbia, a cost-saving, shared network that allows staff in a motor licence office and headquarters to access both the vehicle and driver data bases. These systems are maintained on separate host computers but can now use a common terminal device in the field offices. A number of motor licence offices are already equipped with terminals for the capture of vehicle licence and insurance data. This automated data capture system not only benefits the customer through improved services, but is a significant factor in reducing errors.

The Department, in cooperation with the Adaptive Testing Network, Vancouver, has started development of a new testing system using Telidon terminals for applicants applying for drivers licences. The new method is not only expected to force a higher standard of training but help create a more professional attitude and save millions of dollars through a reduction in new driver accidents.

The Province became a participant in the Canadian Vehicle Safety Alliance and the Commercial Vehicle Safety Alliance of the Unites States to monitor the mechanical conditions of inter-provincial and international operation of commercial vehicles. Roadside vehicle inspections resulted in numerous charges being laid and warnings given regarding the mechanical conditions of these vehicles.

A new Motor Licence Office was opened in Surrey to better serve the residents of Surrey, Delta, and Langley areas.

New weigh scale facilities were constructed near Parksville and Vernon. Two facilities, south of Parksville were constructed in conjunction with the realignment and upgrading of Highway 19. The Vernon Scale, located in the median on Highway 97 north of the city, consists of one building and two scale decks to monitor traffic in both directions. In addition, electronic "open/closed" signs were installed close to the new facilities to improve highway safety.

New electronic weigh scales were installed at the Kelowna, Terrace facilities to improve efficiency through the provision of larger scale decks and the latest in weighing technology.

New oversize load signs which facilitate the movement of oversize loads across provincial boundaries were adopted by British Columbia.

A total of $516,449 in grants was shared among six provincial safety organizations to assist them with their programs.

SENIOR MINISTRY PERSONNEL

As At March 31, 1983

The Honourable Alex. V. Fraser, Minister of Transportation and Highways

R. G. Harvey, P.Eng., Deputy Minister, Transportation and Highways

ADMINISTRATION AND SERVICES DEPARTMENT

A.E. Rhodes, Assistant Deputy Minister
A.R. Limacher, Director of Personnel Programs
S.E. Price, Director of Financial Services
P.S. Perry, Director of Aircraft Services
A.C. Brown, Director of Property Services
D. Grey, Director of Building Services
R.J. Baines, Senior Information Officer
R.A. Fisher, Contract Documents Officer
G.A. Cavin, Insurance and Claims Officer

HIGHWAY OPERATIONS DEPARTMENT

T.R. Johnson, P. Eng., Assistant Deputy Minister
M.G. Elston, P. Eng., Executive Director, Engineering Division
E.E. Readshaw, P. Eng., Director of Highway Design and Surveys
J.W.G. Kerr, P. Eng., Director of Geotechnical and Materials Engineering
L.C. Johnson, P. Eng., Director of Bridge Engineering
H.F. Coupe, P. Eng., Director of Traffic Engineering
J. Lisman, P. Eng., Highway Safety Engineer
D.R. Parkes, P. Eng., Director of Highway Planning
R.G. White, P. Eng., Executive Director, Construction Division
N.R. Zapf, Director of Construction
D.F. Martin, P. Eng., Director of Paving
P.J. Carr, P. Eng., Executive Director, Operational Services Division
Vacant, Director of Maintenance Services
E.A. Lund, P. Eng., Director of Equipment Services

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister
G.A. Clark, Director Transportation Policy Analysis
F.H. Christensen, P. Eng., Director, Engineering Inspection
A.Shaw, C.A.M., Director of Special Projects

MOTOR CARRIER COMMISSION

Judge G.R. Sutherland, Chairman
A.R. Fitch, Superintendent of Motor Carriers

MOTOR VEHICLE DEPARTMENT

R.G. Whitlock, Superintendent of Motor Vehicles
P.K. Jackman, Deputy Superintendent Vehicle and Driver Licensing
P. Toogood, P. Eng., Director Standards and Compliance
J.F. Phillips, Director Administration and Safety Programs

HIGHWAY FIELD OPERATIONS

Region 1

W.E. Mercer, P. Eng., Regional Director, Highways
R.W. Veitch, Regional Manager, Maintenance
R.A. Fru, P. Eng., Regional Manager Construction
G. Garlinge, Regional Manager, Highway Design and Surveys
B.W.R. Eastman, P. Eng., Regional Geotechnical and Materials Engineer
J. Hynds, Regional Manager, Paving
W. Montgomery, Regional Property Negotiator
T.R. Yearsley, Regional Manager, Equipment Services
R. Winbow, District Highway Manager
T.M. Forsyth, District Highway Manager
H.F. Blunden, District Highway Manager
P.S. Dunn, District Highway Manager
T.A. Tasaka, P. Eng., Dock Engineer
H. Gutteridge, District Electrical Manager

Region 2

R.W. Gittins, P. Eng., Regional Director, Highways
D.C. MacVicar, P. Eng., Regional Manager, Maintenance
A.W. Slater, P. Eng., Regional Manager Construction
A.W.G. Smith, Regional Manager, Highway Design and Surveys
Vacant, Regional Geotechnical and Materials Engineer
J.F. Meidinger, P. Eng., Regional Manager, Paving
G.A. Ward, Regional Property Negotiator
J.T. Evans, Regional Manager, Equipment Services
S.J. Sviatko, District Highway Manager
W.A. Budden, District Highway Manager
J.E. Steven, District Highway Manager
B.D. Hunter, P. Eng., District Highway Manager
D.L. Byers, P. Eng., District Highway Manager
J.C. Jensen, District Highway Manager
W.J. McDonald, District Highway Manager

Region 3

W.M. Sproul, P. Eng., Regional Director, Highways
H.J. Kelsall, P. Eng., Regional Manager, Maintenance
G.J. Sutherland, P. Eng., Regional Manager, Construction
P.J. Bonser, P. Eng., Regional Manager, Highway Design and Surveys
P.Barnes, P. Eng., Regional Geotechnical and Materials Engineer
F.H. Sawatzky, Regional Manager, Paving
J. Mintak, Regional Property Negotiator
R.E. Johnson, Regional Manager, Equipment Services
W.R. Ball, District Highway Manager
R.E. McKeown, District Highway Manager
H.L. Good, District Highway Manager
G.F. Kazakoff, District Highway Manager
H.F. Popoff, District Highway Manager
G.K. Austin, District Highway Manager
J.W. Lay, District Highway Manager
D.L. Oliver, District Highway Manager
L.S. Fransson, District Highway Manager

Region 4

L.A. Broddy, P. Eng., Regional Director, Highways
K.E. Bespflug, P. Eng., Regional Manager, Maintenance
D. Chisholm, Regional Manager Construction
E.A. Beaumont, P. Eng., Regional Manager, Highway Design and Surveys
G.C. Stock, P. Eng., Regional Geotechnical and Materials Engineer
F.E. Martens, Regional Manager, Paving
E.S. Gowman, Regional Property Negotiator
G.A. Warrington, Regional Manager, Equipment Services
S. Young, P. Eng., District Highway Manager
A.N. Hepp, District Highway Manager
S.D. Gladysz, District Highway Manager
R.E. Harrison, P. Eng., District Highway Manager
A.W. Horsnell, District Highway Manager
S. Paloposki, District Highway Manager
F. Rizzardo, District Highway Manager

Region 5

D.P. Doyle, P. Eng., Regional Director Highways
N. Hope, P. Eng., Regional Manager, Maintenance
D.N. Moore, P. Eng., Regional Manager Construction
D. Nyland, P. Eng., Regional Geotechnical and Materials Engineer
P.M. Wightman, P. Eng., Regional Bridge Maintenance and Works Engineer
S.C. Christensen, Regional Manager, Paving
J. McDonnel, Regional Property Negotiator
E.J. Robinson, Regional Manager, Equipment Services
J. Ryan, District Highway Manager
W.E. Stanley, District Highway Manager
D.H. Hutton, District Highway Manager
H.A. Ronmark, District Highway Manager
D.S. Kirk, District Highway Manager

Region 6

B.A. L'Hirondelle, P. Eng., Regional Director, Highways
A.L. Freebairn, P. Eng., Regional Manager, Maintenance
R.K. Dash, Regional Manager Construction
B.T. Nielsen, P. Eng., Regional Manger, Paving
R.E. Burnett, Regional Property Negotiator
S. Cutt, Regional Manager, Equipment Services
A.J. Montador, P. Eng., Regional Geotechnical and Materials Engineer
J.A. Cambrey, Regional Manager, Highway Design and Surveys
J.W. Morris, District Highway Manager
G.W. Harper, District Highway Manager
R.W. Ellis, District Highway Manager
G.R. Kent, District Highway Manager
P.D. Hughes, District Ferry Manager

ADMINISTRATION AND SERVICES

REPORT OF THE DIRECTOR OF PERSONNEL PROGRAMS

A.R. Limacher

The approved full time work force of the Ministry reached 7,031 positions during 1982/83 fiscal year. In addition, the Ministry continues to meet seasonal and temporary work requirements through the employment of auxiliary employees. The total numbers fluctuated seasonally but reached a peak of 1,880 including 119 students in August, 1982.

Staffing and competition activities were reduced during the past year due to restraints. Other activities relating to organization, classification, employee relations, health and safety, manpower planning and staff development remained high.

Special planning and other measures were instituted prior to and during the strike of B.C. Government Employee Union members in August and September 1982. Management staff responded well to new roles and experiences.

The Director assisted the Government Employee Relations Bureau in negotiating the B.C.G.E.U. Master Agreement and line officials and personnel staff are involved in B.C.G.E.U. Component negotiations and the B.C. Professional Employees' Association Master Agreement negotiations.

Reports covering the functional sections of the Branch are detailed below.

PERSONNEL OPERATIONS AND OCCUPATIONAL HEALTH AND SAFETY PROGRAMS SECTION

This Section, headed by a manager, provides personnel and occupational health and safety services throughout the Ministry with eight Regional Personnel Officers, one senior and six Regional Occupational Health and Safety Officers.

A total of 976 positions were posted for competition during the year. The Public Service Commission advertised 341 and the balance of 635 were posted by the Ministry through Headquarters, Branches, Regions and Districts.

The Section responded to 39 promotional appeals and processed 76 applications to the screening committee. Placements in other positions were made for 19 employees who, because of advancing years, temporary disablement, industrial injury or industrial illness, were unable to perform their regular duties. Another 20 cases were either withdrawn or rejected and 29 remain outstanding.

In keeping with the current B.C.G.E.U. Master Agreement, hours of work disputes, which cannot be settled by negotiations between the parties, may be resolved by an Hours of Work Umpire. Personnel officers of this Ministry were involved in 23 work schedule disputes, being responsible for assisting in or presenting Management's case before Hours of Work Umpires.

In 1982, the Ministry reported a total of 529 compensable injuries, down from the 625 injuries reported in 1981. Of these, 257 injuries resulted in loss of time beyond the day of the accident. Also included was one fatality to a Ministry employee. A total of 10,819 lost days was assessed against the Ministry.

The direct cost for compensation, including payouts for disabilities and medical aid costs in 1982, totalled $1,517,335.72, down from $1,568,199.40 in 1981.

The Ministry had a total of 11,750,300 hours of work exposure resulting in an improved accountable accident frequency of 33.4 accidents per one million manhours worked, compared with 36.3 in 1981.

Region 6 (Vancouver Island) won the Minister's Safety Trophy for the lowest countable accident frequency among regions. Regional Safety Award winners were Burns Lake, Golden, Penticton, Courtenay, Vanderhoof and Gibsons Highways Districts. The Omineca Princess (Francois Lake Ferry) was the recipient of the Marine Services Award.

The Ministry currently has 80 established safety and health committees, approximately 200 industrial first aid attendants and provided safety oriented first aid training to 1,200 employees in 1982. Additional ongoing training programs were provided in cardio-pulmonary resuscitation, traffic control, dangerous goods emergencies, fire protection, materials handling, welding safety, use of hand tools and supervisory training in accident prevention. The hearing conservation program resulted in testing of 1,582 employees at cost of $22,823.50.

MANPOWER PLANNING AND STAFF DEVELOPMENT SECTION

Under a new Manager this section reviewed all manpower planning and staff development policies and processes in the Ministry. A new emphasis has been placed on service to line operations, the application of a systematic approach to training and development (analysis of manpower requirements and job tasks, leading to course design and employee training and finally a thorough evaluation of results and benefits to the Ministry), the formulation of Ministry policy on staff development (now under review) and generation of 5 year plans to deal with the predicted large turnover in Ministry staff (retirement and transfer) during the period 1983 to 1988.

The Section has initiated eleven new major projects to achieve increased productivity, efficiency, safety and cost cutting in the coming years.

STAFF DEVELOPMENT AND TRAINING SECTION

The Ministry-wide manpower planning analysis of past (1979 to 1982) and potential, future (1983 to 1988) managerial and supervisory retirements has been completed. This analysis is now being expanded to include recent historical staff movement caused by promotions, transfers, resignations, educational leaves, sickness and L.T.D., vacations, dismissals and deaths.

The section has started identifying sources of manpower supply, both internal and external, and after consultation with the Executive on any reorganization plans, will soon begin identifying possible career paths for all managers, professionals and supervisors. The career path steps will be used as a basis for staff development programs, by determining the specific skills and knowledge required at each level.

The Staff Development Section is now responsible for all Ministry training in computer utilization. Starting in 1983, a selection of training modules will be offered to managers, supervisors and other equipment users. These modules will be used to provide maximum 'hands on' experience and will be delivered in short time frames suitable to line operations.

Executive, managerial and supervisory development and analyses of the duties, tasks, skills, and knowledge required of Maintenance Foremen and District Highways Managers have been completed. Both groups were analysed in order to determine present requirements for these positions, with additional input from senior managers to identify new or modified expectations up to 1988.

A detailed report has been compiled of the supervisory development requirements for maintenance foremen and recommendations made for a very practical training program consisting of four modules. The modules, built around technical subjects, will cover productivity and leadership, effective performance appraisals, on-the-job instructional techniques and administration and budgeting.

A further report and proposed training plan for middle managers is now being written. This will result in the Section offering specific, practical management development programs as well as a joint-venture program with Outward Bound of Canada.

These programs will be designed to develop superior skills and knowledge in managers in the areas of planning and budgeting, problem solving and decision making, labour relations, effective leadership, performance planning and review, engineering and technological changes and written and oral communications.

Further analyses of requirements and design of programs for directors, executives and secretaries is planned for the 1983/84 fiscal year. The first program should be ready by October, 1983.

A job task analysis, has been started for office managers and clerical supervisors. This analysis will identify the essential skills and knowledge required of this employee group and how best to develop them.

One result could be better utilization of suitable Public Service Commission courses, with additional training given on regular supervisor and management programs.

The Manpower Development Program (formerly Highway Technology Training Program) is a three-module staff development process, available to all Ministry employees throughout the Province.

The program has 26 (predominately self instructional) correspondence courses in Modules 1 and 2. A further 11 courses are at various stages of development with additional courses planned for the advanced level, Module 3.

Approximately 2,550 employees are actively enrolled in the program of these, 201 have successfully completed Module 1 (240 hours of study) and 22 employees have completed Module 2, requiring an additional 300 hours of study.

A total of 791 applications were processed in 1982/83 for individual employees to attend various training courses offered by educational institutes, other ministries and the Public Service Commission. Of the 791 applications, approximately 60% were approved as having value to the Ministry.

Design work is underway for the brochure and calender of events. The brochure will list all services offered by the Staff Development Section and the calendar will list all the course offerings for 1983/1984, as well as publication of five-year goals.

A full training needs analysis has been completed for Transport Policy Analysis Branch. Two courses on compressed natural gas fuel were delivered to vehicle inspectors, and a leadership and productivity pilot course for Region 1 foremen was successful.

Staff training via satellite has increased, with the presentation of 12 interactive sessions on the Knowledge Network of the West. More than 1,200 employees have participated in these sessions at over 50 receive sites throughout the Province. The topics presented were:

Avalanche Hazards
Scheduling Maintenance Activities
New Employee Orientation and
Effective Communications

The most significant use of the Knowledge Network was a four-session supplement to the Ministry-wide training program on scheduling of maintenance activities for all road foremen.

The Ministry has 67 indentured apprentices in five trade groups - heavy duty mechanics, electricians, electronics technicians, auto body mechanics and welders.

The Apprenticeship Program consists of theoretical and practical training at selected vocational schools, interspersed with considerable on-the-job practice in workshops located throughout the Province. The Apprenticeship Program is considered by many accrediting bodies to be second to none on the North American continent.

During the past year, 20 apprentices successfully completed all requirements of their apprenticeship agreements and 19 have been appointed as certified tradespeople.

Approximately 100 tradespeople have attended upgrading courses to maintain trade currency. This process will continue annually to meet the changing technology.

A detailed task analysis has been completed for mechanical foremen in order to identify their further supervisory and technical training requirements. This has resulted in the development of a practical Lead Hand Supervisory Program and training in on-the-job, practical, instructional techniques. The pilot courses for each of these areas have been successfully delivered.

A full report on manning requirements and potential career paths for mechanical trades has been completed. One major recommendation is that the Ministry should maintain or increase its Apprenticeship Program in order to fill retirement vacancies with qualified tradespeople, including personnel in the Marine Services.

The equipment operator training area underwent a major review of its policy, procedures and training service. As a result, the Regional driver trainers completed a thorough task analysis of their duties, tasks, skills and knowledge to determine how best to serve line operations.

Additional upgrading is planned in 1983/84 for all training operators and Regional driver trainers. This upgrading will cover:

On-Machine Instruction
Program Planning and Scheduling
Budgeting and Costing of Programs
Effective Leadership

The training should result in cost effective delivery of essential training for equipment operators, in order to reduce accidents and costly machine breakdowns.

A total of seven grader operator courses were conducted in two regions (central schools) with 44 personnel successfully completing this phase of the Equipment Operator Training Program.

200 Ministry personnel successfully completed the Safety Orientation Course on light hydraulic cranes throughout the Province and two Hazard Avoidance Courses were delivered to vehicle operators.

In 1982/83, Ministry vehicles and equipment were operated over 74 million kilometres. 703 accidents were reported, of which, 359 (51%) were considered as preventable.

1982/83 was a year of reorganizing for the section's Audio/Visual component. Following an assessment of the current application of A/V material for training and communications in the Ministry, objectives and goals were established in conjunction with the Manpower Planning and Staff Development Section's five year plans. In achieving these objectives the A/V component has adopted the systematic approach in the development of 'Educational Media'.

The major direction of A/V training programs is to assist in providing the Ministry with adequately trained personnel and to establish cost effective communications systems.

Some of the highlights of the internally produced A/V programs for 1982/83 were, two Ministry orientation programs for new employees and a training program on wheel removal and installation for Highways' operations personnel.

EMPLOYEE RELATIONS SECTION

The Employee Relations Section of Personnel Programs became fully operational in 1982 after its implementation late in 1981. While the primary area of concern can best be described as "labour relations" dealing with grievances, arbitration and contract administration - this section is also involved with labour relations training, policy development and other special projects related to personnel administration.

This year was particularly busy due to the expiration of the P.E.A. and B.C.G.E.U. collective agreements. The size and nature of this Ministry meant direct bargaining involvement in the two Master Agreements and four B.C.G.E.U. Component Agreements. Transportation and Highways employs people from six components, three of which have a majority of their members in this Ministry. The only collective agreement settled in 1982 was the B.C.G.E.U. Master Agreement. The P.E.A. Master and B.C.G.E.U. Component bargaining continues in 1983.

The August strike by the B.C.G.E.U. affected this section considerably because of its involvement in strike contingency planning and preparation of the Ministry's essential services requirements. The experience gained and preparation in this area has been useful in subsequent labour disputes.

As a result of the emphasis placed on collective bargaining in 1982, the number of formal arbitrations was down to three from ten in 1981. This may also be the result of the use of "expedited" or "fast-track" arbitration and a concerted effort to resolve issues prior to arbitration.

The total formal grievances for 1982 was 140 for the Ministry which is approximately 2.0 grievances per 100 employees, down significantly from 2.2 per 100 in 1981 and 3.67 per 100 in 1980.

Arbitration is an expensive process both in terms of time lost (productivity) and direct costs of lawyers, arbitrators, travel, etc. These costs cannot be eliminated but can be controlled to a certain extent by proper training of management in the field of labour relations, use of the expedited arbitration process and careful analysis of the labour relations impact before decisions are made affecting employees. A particularly costly area is the dismissal or rejection of an employee. In 1982 19 employees were terminated for reasons ranging from theft to non-culpable absenteeism. As a result of the Section's actions, the Union pursued only one case to a full arbitration hearing in which the decision was overturned by an arbitrator who decided to give the grievor "one last chance".

ORGANIZATION AND CLASSIFICATION SERVICE SECTION

The approved work force for this Ministry increased by 110 positions during the year, adding staff in Motor Carrier Branch, Transport Policy Analysis Branch, Engineering Inspection Branch, Courtenay Ferry District, Contract Documents Office, Financial Services Branch, Maintenance Branch, Motor Vehicles Department and the General Office.

Projects undertaken during the year together with the respective numbers of employees involved were as follows:

i) Motor Vehicle Branch, regional office study - 140 employees, 50% completed.
ii) Motor Vehicle Branch, Revenue Inventory Unit review - six employees, 100% completed.
iii) Bridge resurfacing crew review - 18 employees, 10% completed.
iv) Reorganization of Motor Vehicle Branch, Driver Licence Section - 120 employees, 80% completed.
v) Review of Financial Services Branch, Appropriation Section - nine employees, 50% completed.
vi) ferry captain study - 30 employees, 80% completed.
vii) Dease Tower operation and organization - seven employees, 100% completed.

Approximately 180 individual position reviews were completed in addition to the above, of these 21 positions were management exclusions.

The Manager, Organization and Classification Services, participated as a member of the following inter-Ministry committees:

i) The Compensatory Advisory Committee
ii) the Financial Officer series

ADMINISTRATIVE SUPPORT SERVICES SECTION

This section provides administrative support to the Branch and processes all documents, appointments and maintains comprehensive records of personnel information.

Staff this year provided increased service through even better utilization of the word and data processors. They were able to handle an increased workload due to the delegation of staffing functions by the Public Service Commission to the Ministry.

The section processed relocation expenses for 134 employees totalling $676,181.22 during the fiscal year 1982/83.

In 1982, 89 employees received 25 year certificates and 32 employees received gold watches for 35 years of service to the Government. Also, retirement calculations were processed for 130 employees, of which 56 were presented with Meritorious Service Scrolls.

REPORT OF THE DIRECTOR OF FINANCIAL SERVICES

S. E. PRICE

The following pages disclose in detail the Ministry of Transportation and Highway's expenditures for the fiscal year 1982-83.

The total gross expenditure of $570,648,600 for the period, represents a decrease of $99,944,849 or 14.9% over the preceding fiscal period.

The Highway Maintenance costs have increased $16,170,226, but this merely represents the Building Occupancy charges previously recorded under a separate vote with the net result that expenditures remained the same as the previous year. A relatively mild winter was experienced throughout most of the Province, which resulted in a reduction of $9,050,385 in winter maintenance over the previous fiscal period.

The Highway Construction Capital costs decreased from $339,355,036 in fiscal year 1981-82 to $262,237,839 in fiscal year 1982-83, a decrease of $77,117,197 or 22.7%. Such decrease is due chiefly to the restraint measures placed on capital spending by government policy, and a reduction of $14,443,635 in expenditures on the Highway 23 Revelstoke-Mica relocation projects as more portions of the highway relocation have now been completed. Major engineering and construction work continued on the Fraser River Crossing (Annacis) and Northeast Coal Development Access Highway from Chetwynd to Tumbler Ridge Townsite. Other major construction activities included various sections of reconstruction on Highway 16 Prince Rupert to Smithers, Highway 19 Island Highway, Highway 99 Horseshoe Bay-Whistler and Highway 97 Okanagan Kelowna-Westbank section.

The Motor Vehicle Department expenditures increased from the previous fiscal period by $4,780,736 or 23.9%, which covers inflationary costs and additional servicing costs to cover a normal increase in vehicles and drivers.

The Air Services Branch expenditures increased from the previous fiscal year by $1,712,041 or 38.4%, which was due to extraordinary costs of major modifications to the three Citation I aircraft. One aircraft, the Otter, was sold during the fiscal period with no new purchases or replacements.

The Ministry continued to provide, through the Air Transport Assistance Program, grants to Municipalities, Regional Districts and Societies for the development, construction, and improvement of local air transport facilities with total funds expended of $1,698,883 in fiscal year 1982-83, compared to $3,677,034 in fiscal year 1981-82.

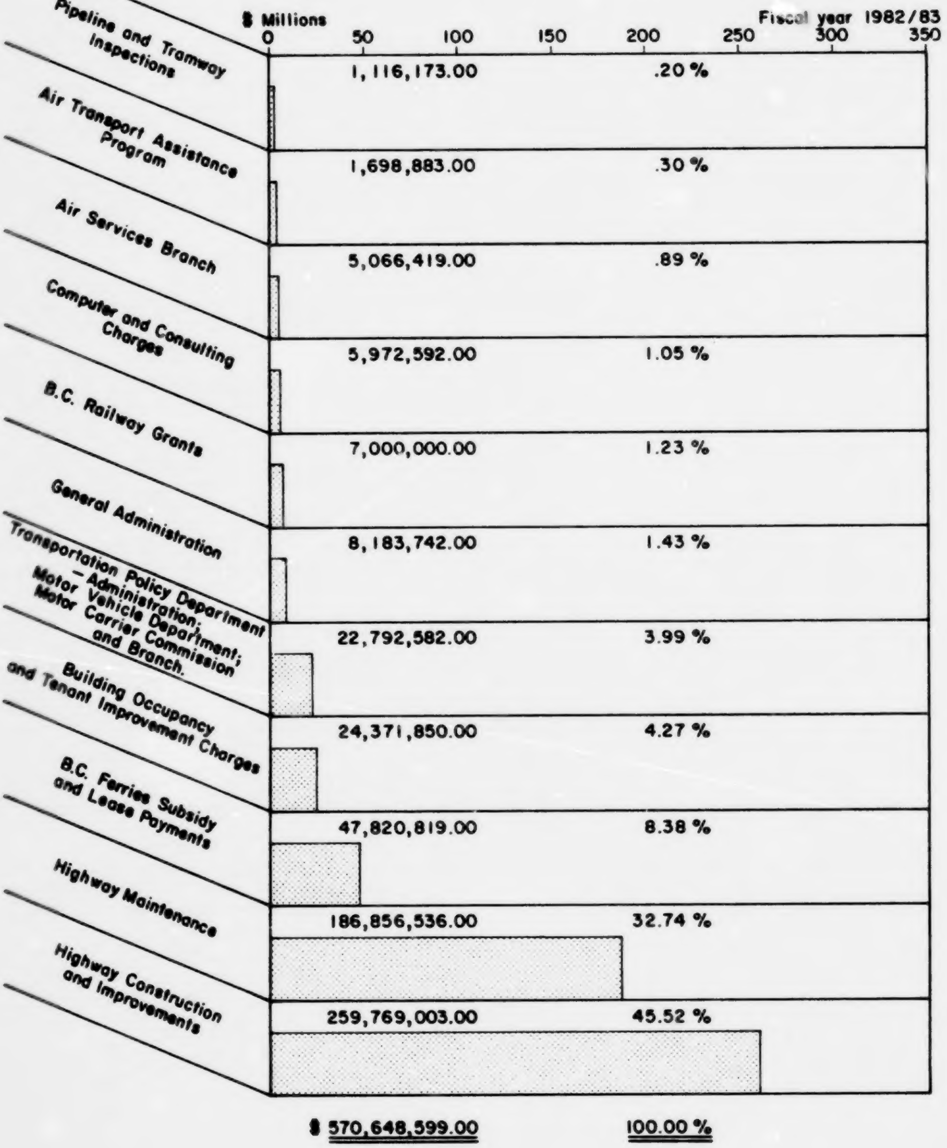
The Ministry provided a ferry subsidy of $43,000,000 to the B.C. Ferry Corporation in 1982-83, compared to $58,890,776 in 1981-82. The reduction was due to a change in government policy.

The Ministry provided a grant of $7,000,000 to B. C. Rail in 1982-83, compared to $13,151,155 in the previous year as the government continued to encourage the Crown Corporations to cover more of their own operating losses.

This fiscal year saw the inclusion of Building Occupancy and Computer and Consulting charges within each applicable vote, whereas in past years, these items of expenditures were treated as separate votes in the government estimates.

Special funds provided under Bill 7-Special Funds Act 1980, Fraser River Crossing, were expended very early in 1982-83 and were not replenished, with the result that practically all expenditures on the Fraser River Crossing were charged to the main sub-vote-Highway Construction and Improvements.

How the Transportation and Highways dollar was spent:



MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1982-83

VOTE NUMBER	VOTE DESCRIPTION	1982-83 VOTE ESTIMATES	1982-83 TOTAL EXPENDITURES CASH BASIS	1982-83 ACCRUALS	1982-83 TOTAL EXPENDITURES ACCRUAL BASIS	1982-83 NET OVER(UNDER) EXPENDITURES	1981-82 TOTAL EXPENDITURES
		$	$	$	$	$	$
76	Minister's Office	228,769.00	196,741.03		196,741.03	(32,027.97)	205,209.86
77	Administration and Services Department:	19,242,394.00					
	-General Administration -Highways	11,198,123.00	9,322,619.69		9,322,619.69	(1,875,503.31)	7,416,728.08
	-General Administration -Transportation	1,250,744.00	813,239.57		813,239.57	(437,504.43)	995,154.33
	-Air Services Branch	6,793,527.00	5,272,123.97		5,272,123.97(1)	(1,521,403.03)	3,726,670.69
78	Highway Operations Department:	518,666,298.00(2)					
	-Highway Maintenance	236,454,436.00	207,416,968.32	(270,538.10)	207,146,430.22	(29,308,005.78)	190,976,204.61
	-Highway Construction and Improvements	282,211,862.00	243,938,929.24	458,284.08	244,397,213.32	(37,814,648.68)	285,259,267.50
79	Hydro Development-Highways	10.00	17,800,247.80		17,800,247.80(3)		32,243,882.26
80	Transportation Policy Department:	5,658,433.00					
	-Administration	302,057.00	231,105.24		231,105.24	(70,951.76)	(4)
	-Transportation Policy Analysis Branch	3,424,226.00	2,331,610.85	26,412.20	2,358,023.05	(1,066,202.95)	4,450,048.13
	-Engineering Inspection Branch	1,932,150.00	1,332,303.31		1,332,303.31	(599,846.69)	1,037,079.01
81	Crown Corporation Assistance:	54,822,700.00					
	-British Columbia Ferries	47,822,700.00	47,820,819.34		47,820,819.34(5)	(1,880.66)	63,712,165.52
	-British Columbia Railway	7,000,000.00	7,000,000.00		7,000,000.00		13,151,155.00
82	Motor Vehicle Department	30,543,264.00	24,741,609.46	23,496.19	24,765,105.65	(5,778,158.35)	19,984,369.21

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1982-83

- Continued -

VOTE NUMBER	VOTE DESCRIPTION	1982-83 VOTE ESTIMATES	1982-83 TOTAL EXPENDITURES CASH BASIS	1982-83 ACCRUALS	1982-83 TOTAL EXPENDITURES ACCRUAL BASIS	1982-83 NET OVER(UNDER) EXPENDITURES	1981-82 TOTAL EXPENDITURES
		$	$	$	$	$	$
83	Motor Carrier Commission and Branch:	2,542,953.00					
	-Motor Carrier Branch	2,107,646.00	1,799,960.44		1,799,960.44	(307,685.56)	1,330,870.38
	-Motor Carrier Commission	435,307.00	352,290.29		352,290.29	(83,016.71)	326,669.58
-	Building Occupancy Charges	(6)					19,048,779.14
-	Computer and Consulting Charges	(7)					4,877,310.30
Bill 7	Special Funds Act, 1980 (Fraser River Crossing)		40,377.64		40,377.64	40,377.64	21,851,886.23
TOTAL, GROSS EXPENDITURES		631,704,821.00	570,410,946.19	237,654.37	570,648,600.56(8)	(78,856,458.24)	670,593,449.83

NOTES:
(1) The sum of $900,241.72 was recovered from "Other Ministries and Outside Parties" using the Air Services Branch.
(2) Original estimate of $521,132,477.00 reduced to 518,666,298.00 as the result of a Vote overexpenditure in fiscal year 1981-82 being charged to 1982-83 Appropriations (Authority: Financial Administration Act (S.B.C. 1981, Chap.15, Sec.23(3)).
(3) The sum of $17,800,247.80 is recoverable from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.
(4) Accounted for in the Transportation Policy Analysis Branch expenditure figure in fiscal year 1981-82.
(5) Comprised of the Annual Subsidy to the B.C. Ferry Corporation ($43,000,000.00) and lease payments ($4,820,819.34) for three vessels operated by the Corporation.
(6&7) In fiscal year 1982-83, Building Occupancy and Computer and Consulting Charges were not established as a separate Vote, but were recorded against the Vote to which the expenditure was related.
(8) Included in this figure is the sum of $237,654.37 which was debited to fiscal year 1982-83 in conjunction with the Modified Accruals Accounting System.

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1982-83

1981-82					1982-83			
$	$	$	$		$	$	$	$
205,209.86				Vote 76-Minister's Office				196,741.03
				Vote 77-Administration and Services Department:				
	7,416,728.08			-General Administration - Highways			9,322,619.69	
	995,154.33			-General Administration - Transportation			813,239.57	
				-Air Services Branch:				
	4,460,324.19			Expenditures			6,172,365.69	
12,138,553.10	733,653.50cr			Recoveries			900,241.72cr(1)	15,407,983.23
				Vote 78-Highway Operations Department:				
				Highway Maintenance:				
			119,978,083.64	Roads	154,054,501.29			
			44,973,930.00	Snow Removal	35,923,545.00			
		156,874,237.60	8,077,776.04cr	Intra-Ministry materials usage credits	10,428,139.93cr	179,549,906.36		
		8,582,609.79		-Bridges		9,892,983.31		
		28,135,456.12		-Ferries		30,067,261.27		
		55,473,251.46		-Machinery maintenance and operation		47,437,055.34		
	190,976,204.61	58,089,350.36cr		-Intra-Ministry equipment rental credits		59,800,776.06cr	207,146,430.22	
				Highway Construction and Improvements:				
				Roads:				
		200,000.00		-Archaeological explorations		89,989.53		
		2,701,428.08		-Equipment capital purchases		295,551.97		
		8,382,391.64		-Geotechnical and materials engineering		8,188,238.96		
		479,132.09		-Highway safety measures		483,115.27		
		559,279.43		-Legal surveys		623,361.06		
		2,099,580.19		-Municipal Grants and Contributions		1,233,177.92		
		733,729.77		-Radio-telephone installations		223,840.03		
		33,627,295.64		-Rights-of-way and property purchases		19,014,834.90		

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1982-83

1981-82					1982-83			
$	$	$	$		$	$	$	$
				Vote 78-Highway Operations Department - continued				
		120,717,396.47		-Roads construction		121,170,562.38		
		1,395,174.31		-Roadside development and landscape		618,135.31		
		603,577.36		-Scientific and technical equipment		490,889.82		
		1,465,072.01		-Secondary highways		1,204,492.71		
		3,838,712.42		-Signals, lighting etc.		3,703,179.46		
		8,696,754.50		-Surveys generally		8,072,705.14		
				-Bridges and ferries:				
			29,086,407.89	Bridges	38,414,658.98			
		44,088,463.01	15,002,055.12	Ferries	8,654,092.66	47,068,751.64		
		3,409,426.04		-Ferry landings		695,194.91		
476,235,472.11	285,259,267.50	52,261,854.54		-Paving		31,221,192.31	244,397,213.32	451,543,643.54
				Vote 79-Hydro Development - Highways:				
	23,710,151.88			-Roads construction(Gross Expenditure)			12,551,659.12	
	6,344,224.15			-Bridges(Gross Expenditure)			2,510,938.46	
32,243,882.26	2,189,506.23			-Paving(Gross Expenditure)			2,737,650.22	17,800,247.80(2)
				Vote 80-Transportation Policy Department:				
	(3)			-Administration			231,105.24	
	4,450,048.13			-Transportation Policy Analysis Branch			2,358,023.05	
5,487,127.14	1,037,079.01			-Engineering Inspection Branch			1,332,303.31	3,921,431.60
				Vote 81-Crown Corporation Assistance:				
	63,712,165.52			-British Columbia Ferries			47,820,819.34(4)	
76,863,320.52	13,151,155.00			-British Columbia Railway			7,000,000.00	54,820,819.34
				Vote 82-Motor Vehicle Department:				
				Administration and Safety Branch:				
	1,293,639.11			-Administration - Administration and Safety Branch			570,782.06	
	(5)			-Safety Programs - Administration and Safety Branch			538,742.24	

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1982-83

	1981-82			1982-83		
$	$	$	$ $	$	$	$
			Vote 82-Motor Vehicle Department - continued			
			Vehicles and Drivers Licencing Branch:			
	(6)		-Administration - Vehicle and Drivers Licence Branch		144,072.19	
	6,124,307.81		-Vehicle Licencing Division		6,631,909.50	
	5,240,222.63		-Drivers Licencing Division		8,246,822.91	
			Standards and Compliance Branch:			
	3,646,830.58		-Commercial Transport Division		4,039,435.37	
	3,679,369.08		-Motor Vehicle Inspection Division		4,506,930.08	
19,984,369.21	NON-APPLICABLE		-Standards and Industrial Roads Division		86,411.30	24,765,105.65
			Vote 83-Motor Carrier Commission and Branch:			
	1,330,870.38		-Motor Carrier Branch		1,799,960.44	
1,657,539.96	326,669.58		-Motor Carrier Commission		352,290.29	2,152,250.73
			-Building Occupancy Charges: (7)			
		2,720,330.90	-Occupancy charges-Transportation			
	2,900,127.90	179,797.00	-Tenant improvement charges-Transportation			
		15,441,164.10	-Occupancy charges-Highways			
19,048,779.14	16,148,651.24	707,487.14	-Tenant improvement charges-Highways			
			-Computer and Consulting Charges: (8)			
	2,731,785.35		-Transportation charges			
4,877,310.30	2,145,524.95		-Highways charges			
			Bill 7 **-Special Funds Act, 1980 (Fraser River Crossing):**			
	17,799,816.68		-Roads Construction		NON-APPLICABLE	
21,851,886.23	4,052,069.55		-Bridges		40,377.64	40,377.64
670,593,449.83			TOTAL, GROSS EXPENDITURE			570,648,600.56(9)

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1982-83
Continued

NOTES:

(1) Included in this figure is the sum of $900,241.72 which was recovered from "Other Ministries and Outside Parties" using the Air Services Branch.

(2) The sum of $17,800,247.80 is recoverable from B. C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

(3) Accounted for in the Transportation Policy Analysis Branch expenditure figure in fiscal year 1981-82.

(4) Comprised of the Annual Subsidy to the B. C. Ferry Corporation ($43,000,000.) and lease payments ($4,820,819.34) for three vessels operated by the Corporation.

(5 & 6) Accounted for in the Motor Vehicle Department, Administration and Safety Branch, expenditure figures in fiscal year 1981-82.

(7 & 8) In fiscal year 1982-83, Building Occupancy and Computer and Consulting charges were not established as a separate Vote, but were recorded against the Vote to which the expenditure was related.

(9) Included in this figure is the sum of $237,654.37 which was debited to fiscal year 1982-83 in conjunction with the Modified Accruals Accounting System.

DETAILS OF EXPENDITURES BY APPROPRIATIONS (VOTES) AND ACTIVITIES, AND BY STANDARD EXPENDITURE CLASSIFICATIONS

VOTE 76

MINISTER'S OFFICE

This vote provides for the Office of the Minister of Transportation and Highways, including his salary and expenses and those of his immediate staff.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	165,560	Salaries		166,870
	39,650	Supplies and services		29,871
213,962	205,210		228,769	196,741

VOTE 77

ADMINISTRATION AND SERVICES DEPARTMENT

This vote provides for the overall policy direction of the Ministry and for the provision of air services to meet the requirements of the Provincial Government.

(a) **General Administration** - This sub-vote provides for the overall policy direction of the Ministry, including the offices of the Deputy Minister and two Assistant Deputy Ministers, and for the administrative and support services to the operational, planning and research program, including the overall management of the Ministry's resources.

(b) **Air Services Branch** - This sub-vote provides for the air services requirements for the Provincial Government including the acquisition and maintenance of aircraft, air and ground crews and other related operational and administrative costs together with the operation of a travel recording centre.

1981-82				1982-83	
Appropriations	Actual Expenditures	Group account classification		Appropriations	Actual Expenditures
	7,626,001	Salaries			7,687,809
	5,160,757	Supplies and services			8,467,535
	81,837	Capital			152,869
	3,612	Other expenditures			105
	733,654.cr	Recoveries:			
		Ministries	885,060.cr		
		Other	15,275.cr		900,335.cr
12,542,630	12,138,553			19,242,394	15,407,983

VOTE 78

HIGHWAY OPERATIONS DEPARTMENT

This vote provides for the all-year maintenance and operation of the existing highway and ferry system, and for the development and expansion of the system to meet transportation needs of industry and the general public.

(a) **Highway Maintenance** - This sub-vote makes provision for the maintenance and operation of highways and roads, bridge structures, ferry routes, ferry landings, tunnels, equipment operation and replacement, including winter maintenance involving snow and ice removal, and the payment of grants, contributions and subsidies.

(b) **Highway Construction and Improvements** - This sub-vote makes provision for the development, improvement and expansion of the highway and ferry system, including planning, engineering, design, survey, construction, reconstruction, rights-of-way acquisition, property purchase and paving, all relating to Provincial highways, roads, bridges, ferries, ferry landings, and tunnels; the purchase of additional equipment and machinery, and payment of authorized grants and contributions to other jurisdictions in connection with their highway systems and other authorized grants.

1981-82				1982-83	
Appropriations	Actual Expenditures	Group account classification		Appropriations	Actual Expenditures
	152,770,985	Salaries			147,825,799
	146,438,311	Supplies and services			162,677,740
	181,986,224	Capital			147,100,483
	3,955,012	Grants			3,718,529
	327,752	Other expenditure			109,201
	9,242,812.cr	Recoveries:			
		British Columbia Railway	3,318,168.cr		
		British Columbia Ferry Corporation	6,490,185.cr		
		Other	79,756.cr		9,888,109.cr
		Main Estimates:		521,132,477	
		Statutory-Financial Administration Act (S.B.C.1981, Chap.15,Sec.23(3)		(2,466,179)	
484,912,800	476,235,472			518,666,298	451,543,643

VOTE 79

HYDRO DEVELOPMENT - HIGHWAYS

This vote provides for the relocation of Provincial Highway 23, Revelstoke to Mica Creek, resulting from the construction by British Columbia Hydro and Power Authority of the Revelstoke Dam, and further provides for the recovery from British Columbia Hydro and Power Authority of all costs resulting from the highway relocation.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,764,899	Salaries		1,185,730
	1,460,939	Supplies and services		786,527
	29,013,228	Capital		15,825,753
	4,816	Other expenditures		2,237
10	32,243,882		10	17,800,247.(1)

NOTE: (1)The sum of $17,800,247. is totally recoverable from B.C.Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

VOTE 80

TRANSPORTATION POLICY DEPARTMENT

This vote provides for the development, evaluation and implementation of transportation policy in the marine, air, rail and other surface systems. It also provides for regulatory activity under the Pipeline Act and Railway Act.

(a) **Administration** - This sub-vote provides for the Office of the Assistant Deputy Minister of Transportation Policy and his support staff.

(b) **Transportation Policy Analysis Branch** - This sub-vote provides for the development of a comprehensive Provincial policy, including consideration of Provincial transportation programs such as British Columbia Ferries Corporation and British Columbia Railway Company. This sub-vote also provides for the Air Transport Assistance Program which provides grants to communities in the development of local airport facilities.

(c) **Engineering Inspection Branch** - This sub-vote provides for regulatory activity, such as, monitoring of construction, final inspections, annual inspections, or certification of industrial projects, subject to the Railway Act and Pipeline Act. The branch examines and certifies operating personnel for railway and aerial tramways.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,306,618	Salaries		1,509,032
	1,086,486	Supplies and services		739,540
	5,686	Capital		6,043
	3,088,321	Grants		1,666,725
	17	Other expenditures		92
6,510,309	5,487,128		5,658,433	3,921,432

AIR TRANSPORT ASSISTANCE PROGRAM
SUMMARY OF AIRPORT ASSISTANCE PROJECTS

Project	Description	Electoral District	Applicant/Recipient	$
A-0399	Atlin, re-align gravel runway	Atlin	Atlin District Board of Trade	300,000.00
A-0404	Salmon Arm purchase and installation of lighting system and tree clearing	Shuswap-Revelstoke	District of Salmon Arm	250,000.00
A-0492	Administration and Overhead - Air Transport Assistance Program	Headquarters	N/A	148,883.78
A-0985	Chetwynd Airport, install landing aids including runway lighting system and non-directional beacon	South Peace River	Village of Chetwynd	150,000.00
A-0988	Merritt airport, earthwork for runway extension, new apron and taxiway	Yale-Lillooet	City of Merritt	350,000.00
A-0991	Fraser Lake airport, perimeter fencing	Omineca	Village of Fraser Lake	25,000.00
A-1571	Bella Bella, construct 3km public road to connect new airstrip to Village of Shearwater	Mackenzie	Denny Island Airport Society	350,000.00
A-1624	Valemount, construct parking apron, tree clearing	Prince George South	Village of Valemount	30,000.00
A-1625	McBride, upgrade surface drainage system	Prince George South	Village of McBride	20,000.00
A-1626	Osoyoos, complete site survey and finalize design for proposed runway	Boundary-Similkameen	Village of Osoyoos	15,000.00
A-1627	Oliver, enlarge apron and assist with installation of utilities	Boundary-Similkameen	Village of Oliver	12,000.00
A-1628	Pitt Meadows, assist with costs of investigation into feasibility and demand for expansion	Dewdney	Pitt Meadows Airport Society	2,000.00
A-1807	Courtenay, assist with installation of float plane dock adjacent to existing airstrip	Comox	City of Courtenay	6,000.00
A-1808	Tumbler Ridge, geotechnical investigation, site survey and design for new airstrip	South Peace River	Municipality of Tumbler Ridge	30,000.00
A-1809	108 Mile, geotechnical investigation in anticipation of asphalt overlay on runway	Cariboo	Cariboo Regional District	10,000.00
Total Grants Awarded:				1,698,883.78

VOTE 81

CROWN CORPORATION ASSISTANCE

This vote makes provision for the payment of a subsidy to the British Columbia Ferry Corporation and grants to the British Columbia Railway Company.

(a) **British Columbia Ferries** - This sub-vote provides for payment of a subsidy to the British Columbia Ferry Corporation and for lease payments and related administrative costs for ferries sub-leased to and operated by the Corporation.

(b) **British Columbia Railway** - This sub-vote provides for grants to the British Columbia Railway Company to compensate the railway for the operating loss on government mandated services.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	4,821,390	Supplies and services		4,820,819
	72,041,931	Grants		50,000,000
76,913,476	76,863,321		54,822,700	54,820,819

VOTE 82

MOTOR VEHICLE DEPARTMENT

This vote provides for the administration of the laws, regulations, and policies governing the operation of motor vehicles and industrial equipment in accordance with provisions of the Motor Vehicle Act, Commercial Transport Act, Motor Vehicle (All Terrain) Act and Highway (Industrial) Act and regulations pertaining thereto.

(a) **Administration and Safety Branch** - This sub-vote provides for the offices of the Superintendent of Motor Vehicles, and Branch Directors and for the provision of coordinated direction for the Motor Vehicle Department, planning, development and implementation of related policies and procedures, including effective road user safety programs.

(b) **Vehicle and Drivers' Licensing Branch** - This sub-vote makes provision for the regulation by registration and licensing of motor vheicles for operation on public highways and roads including the issuance of policies of insurance for such motor vehicles, the regulation by licensing of persons to operate motor vehicles on public highways and roads including the monitoring of driving records and the determination of the ability and fitness of persons to operate motor vehicles and the collection of revenue resulting from the issuance of licences and permits.

(c) **Compliance Standards Branch** - This sub-vote makes provision for the development and implementation of industrial road safety programs, establishment of industrial equipment standards and the standard of maintenance required thereon, operator licensing practices and procedures, all as specified by the Highway (Industrial) Act; the inspection of motor vehicles under the Motor Vehicle Act, the monitoring of all commercial vehicle routes involving the load measurement and weighing, and the issuance of permits, traffic tickets and warnings, and the collection of revenue resulting from the issuance of permits.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	15,059,496	Salaries		15,324,416
	4,269,878	Supplies and services		8,772,923
	123,283	Capital		129,002
	524,752	Grants		533,039
	6,960	Other expenditures		5,725
23,582,731	19,984,369		30,543,264	24,765,105

VOTE 83

MOTOR CARRIER COMMISSION AND BRANCH

This vote provides for the regulation of the Motor Carrier Industry through hearings, inspections and licensing procedures.

(a) **Motor Carrier Commission** - This sub-vote makes provision for the regulation of the motor carrier industry intra-provincially as a Provincial Board pursuant to the Motor Carrier Act, and extra-provincially as members of a Federal Board pursuant to the Motor Vehicle Transport Act (Canada).

(b) **Motor Carrier Branch** - This sub-vote provides for the conducting of investigations into the licensing of the commercial motor carrier industry in the for-hire transportation of freight and passengers, examination of schedules of rates charged by carriers as well as time schedules and the collection of revenue resulting from the issuance of licences, the making of recommendations to the Motor Carrier Commission and the implementation of decisions made by the Commission with respect to such applications, and the safety inspections of public passenger vehicles.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,326,734	Salaries		1,522,610
	330,791	Supplies and services		629,613
	14	Other expenditures		29
1,715,676	1,657,539		2,542,953	2,152,252

BILL 7

SPECIAL FUNDS ACT 1980(FRASER RIVER CROSSING FUND)

The purpose of this fund is for the construction of a crossing of the Fraser River in the vicinity of Annacis Island to facilitate the free and easy flow of vehicles and people in the Lower Mainland Region.

1981-82			1982-83	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,255,153	Salaries		
	5,430,149	Supplies and services		40,378
	15,166,584	Capital		
21,892,264	21,851,886		40,378	40,378

BUILDING OCCUPANCY CHARGES (1)

Provides for payments to the British Columbia Buildings Corporation for rental and maintenance of buildings, and office accommodation occupied by the Ministry.

	1981-82	
Appropriations	Actual Expenditures	Group account classification
	19,048,779	Supplies and services
19,717,071	19,048,779	

COMPUTER AND CONSULTING CHARGES (2)

Provides for payments to the British Columbia Systems Corporation for data processing and management consulting services.

	1981-82	
Appropriations	Actual Expenditures	Group account classification
	4,877,310	Supplies and services
4,892,550	4,877,310	

NOTE: (1&2) In fiscal year 1982/83, Building Occupancy and Computer and Consulting Charges were not established as a separate Vote, but were recorded against the Vote to which the expenditure was related.

STATEMENT OF REVENUE AND EXPENDITURES FOR FERRIES FOR WHICH THE COST OF MAINTENANCE AND OPERATION IS PROVIDED FOR IN MINISTRY OF TRANSPORTATION AND HIGHWAYS ESTIMATES

	1981/82		1982/83	
NAME OF FERRY	REVENUE $	EXPENDITURES $	REVENUE $	EXPENDITURES $
Albion-Fort Langley Ferry	NIL	1,881,909.69	NIL	1,833,287.55
Alert Bay Ferry	266,739.30	1,698,349.07	275,461.65	1,836,542.06
Arrow Park Ferry	NIL	91,048.61	NIL	131,826.15
Barkley Sound Ferry subsidy	NIL	81,000.00	NIL	232,998.00
Barnston Island Ferry	NIL	329,664.98	NIL	414,384.58
Big Bar Ferry	NIL	61,440.13	NIL	104,264.28
Castlegar Ferry	NIL	224,594.65	NIL	221,149.26
Clayhurst Ferry	NIL	284,591.29	NIL	282,777.48
Comox-Powell River Ferry	1,704,401.91	3,872,548.36	1,667,455.66	4,133,283.62
Cortes Island Ferry	108,288.65	1,221,367.07	107,424.70	1,111,592.03
Denman Island Ferry	220,601.10	1,202,196.79	268,997.10	1,490,796.75
Fort Nelson Hover Ferry	NIL	298,967.69	NIL	366,551.96
Francois Lake Ferry	NIL	1,497,267.08	NIL	1,402,901.87
Gabriola Ferry	521,948.17	1,942,026.81	562,749.73	3,157,892.38
Glade Ferry	NIL	163,189.17	NIL	147,993.80
Harrop Ferry	NIL	209,941.58	NIL	196,573.33
Hornby Island Ferry	73,195.40	911,980.76	92,353.80	853,600.81
Isle Pierre Ferry	NIL	30,127.65	NIL	32,251.02
Kootenay Lake Ferry	NIL	1,597,940.79	NIL	1,691,952.99
Lasqueti Island Ferry subsidy	NIL	183,000.00	NIL	184,833.40
Little Fort Ferry	NIL	72,481.51	NIL	61,196.14
Lytton Ferry	NIL	164,801.91	NIL	166,997.71
Marguerite Ferry	NIL	91,940.34	NIL	93,273.09
McLure Ferry	NIL	59,188.76	NIL	58,627.05
Miscellaneous	NIL	69,533.22	NIL	97,597.21
Misty Islands Ferry subsidy	NIL	33,000.00	NIL	33,000.00
Needles-Fauquier Ferry	NIL	910,908.97	NIL	894,194.99
Newcastle Island Ferry subsidy	NIL	19,077.32	NIL	5,416.00
North Bend Ferry	NIL	265,000.00	NIL	288,000.00
Prince Rupert Ferry subsidy (Dodge Cove)	NIL	15,960.00	NIL	15,960.00
Quadra Island Ferry	410,380.70	1,959,680.93	450,480.40	2,123,676.27
Queen Charlotte Islands Ferry	123,461.20	1,097,415.94	139,672.37	631,847.36
Shuswap Lake Ferry subsidy	NIL	24,000.00	NIL	26,400.00
Sunshine Bay Drydock	NIL	7,831.49	NIL	37,546.12
Texada Island Ferry	201,474.90	2,114,480.73	202,839.70	1,860,716.45
Thetis Island Ferry	108,643.50	1,058,709.77	125,550.60	1,321,218.86
Upper Arrow Lakes Ferry	NIL	1,343,053.79	NIL	1,426,481.37
Usk Ferry	NIL	103,665.45	NIL	112,030.19
Woodfibre Ferry	20,907.00	941,573.82	8,118.00	724,181.11
TOTALS:	$3,760,041.83	$28,135,456.12	$3,901,103.71	$29,805,813.24

STATEMENT OF VALUE OF INTRA-MINISTRY USAGE BY HIGHWAY DISTRICT AND BRANCH FISCAL YEAR 1982-83

HIGHWAY DISTRICT AND BRANCH	VALUE OF USAGE OF MINISTRY OWNED EQUIPMENT $	VALUE OF USAGE OF CRUSH, MIX AND GUARDRAIL $
Burns Lake	1,149,595.00	176,008.00
Chilliwack	2,288,792.46	271,903.26
Courtenay	1,543,900.00	353,811.00
Cranbrook	1,039,544.00	131,766.00
Creston	844,909.57	165,472.00
Dawson Creek	2,041,083.00	666,521.00
Dease Lake	1,327,565.00	484,100.00
Fernie	868,800.32	134,859.00
Fort St.John	2,014,810.00	418,522.00
Golden	1,103,612.00	187,511.00
Gibsons	589,015.00	121,566.24
Grand Forks	1,038,397.63	301,308.47
Kamloops	1,533,790.10	352,524.20
Kelowna	994,058.40	79,130.00
Lillooet	1,149,686.00	227,629.00
Merritt	1,257,879.00	611,803.00
McBride	1,027,350.00	315,874.00
Nanaimo	1,234,873.00	164,464.00
Nelson	1,083,196.80	190,952.00
New Denver	1,216,078.00	293,382.00
New Westminster	1,673,966.00	75,363.00
Centreline Marking	460,652.00	NIL
Dock District	777,119.55	NIL
Electrical Maintenance	496,696.00	NIL
North Vancouver	1,410,234.70	168,672.00
Patrol	216,262.00	NIL
100 Mile House	1,184,156.00	203,598.00
Penticton	1,396,109.00	184,412.00
Port Alberni	980,820.49	147,921.00
Prince George	2,138,838.00	510,736.60
Prince Rupert	1,082,525.00	215,871.00
Quesnel	2,088,716.00	457,221.00
Revelstoke	1,191,795.00	116,632.00
Rossland	1,006,339.06	141,880.00
Saanich	1,386,854.00	325,580.16
Salmon Arm	1,383,640.00	313,983.00
Smithers	1,135,545.00	260,202.00
Terrace	850,009.00	336,416.00
Vanderhoof	1,443,145.00	248,734.00
Vernon	1,169,520.00	197,706.00
Williams Lake	1,951,101.00	773,597.00
Region 6 Ferry District	57,225.00	NIL
Region/District 1	362,433.00	NIL
Region/District 2	699,290.00	NIL
Region/District 3	718,109.98	44,681.00
Region/District 4	855,143.00	55,828.00
Region/District 5	109,931.00	NIL
Region/District 6	317,449.00	NIL
Headquarters -		
Administration & Safety Branch	64,277.00	NIL
Air Services Branch	16,954.00	NIL
Assistant Deputy Minister-Admin.	17,232.00	NIL
Bridge Engineering Branch	303,116.00	NIL
Chief Inspection Engineer	87,074.00	NIL
Commercial Transport Division	140,325.00	NIL
Construction Branch	1,272,523.00	NIL
Highway Design & Survey Branch	478,271.00	NIL
Drivers Licensing Division	93,963.00	NIL
Equipment Services Branch	333,682.00	NIL
Financial Services Branch	20,169.00	NIL
Geotechnical & Materials Testing Branch	1,409,922.00	NIL
Motor Vehicle Inspection Division	102,577.00	NIL
Paving Branch	1,478,791.00	NIL
Planning Branch	14,916.00	NIL
Traffic Engineering Branch	62,475.00	NIL
Vehicle Licensing Division	13,950.00	NIL.
TOTALS:	59,800,776.06	10,428,139.93

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1982/83

VOTE 078 HIGHWAY MAINTENANCE

HIGHWAY DISTRICT	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	82-83 TOTAL $	81-82 TOTAL $
Region/District 1 - Burnaby	1,808,636.86		620,288.46			2,428,925.32	2,454,441.38
North Vancouver	3,621,825.02	448,205.00	288,795.30	724,181.11		5,083,006.43	4,958,868.65
Gibsons	1,751,766.54	97,969.00	67,911.56			1,917,647.10	1,728,932.68
Patrol	495,737.09					495,737.09	796,995.55
New Westminster	5,621,091.41	272,856.00	498,672.41	2,247,672.13		8,640,291.95	8,406,028.99
Chilliwack	4,899,649.61	1,510,140.00	312,554.14	288,000.00		7,010,343.75	6,832,285.55
Dock	691,369.64					691,369.64	1,088,951.87cr
Electrical Maintenance	1,879,534.19					1,879,534.19	1,936,758.96
Centreline Marking	4,805,253.53					4,805,253.53	4,229,835.81
Region/District 2 - Kamloops ...	2,625,386.74		362,656.76			2,988,043.50	3,016,603.79
Kamloops	3,331,487.58	1,500,938.00	149,019.12	119,823.19		5,101,267.89	5,065,832.44
Salmon Arm	3,206,168.14	1,097,615.00	244,611.76	26,400.00		4,574,794.90	3,861,632.34
Vernon	2,875,343.80	969,617.00	409,761.70			4,254,722.50	3,130,997.39
Penticton	2,962,310.82	1,084,088.00	191,881.73			4,238,280.55	3,856,851.52
Merritt	2,639,985.09	929,198.00	164,258.54	166,997.71		3,900,439.34	3,592,334.52
Lillooet	2,760,866.26	618,106.00	230,863.06			3,609,835.32	3,420,778.94
100 Mile House	3,269,751.59	939,820.00	91,346.84	104,264.28		4,405,182.71	3,873,001.02
Kelowna	2,117,658.70	878,904.00	109,404.56			3,105,967.26	2,944,413.20
Region/District 3 - Nelson	1,792,182.76		174,701.81			1,966,884.57	1,862,675.51
Nelson	1,953,314.91	937,797.00	181,222.74	2,074,066.24		5,146,400.89	5,206,880.03
Rossland	1,370,797.50	1,298,299.00	76,910.62	221,149.26		2,967,156.38	2,845,906.66
Grand Forks	1,664,944.49	857,398.00	114,542.04			2,636,884.53	2,699,963.71
New Denver	1,842,754.68	780,854.00	147,145.72	1,026,021.14		3,796,775.54	3,821,107.04
Cranbrook	1,806,454.19	784,390.00	82,971.31			2,673,815.50	2,700,222.39
Fernie	1,221,690.99	619,758.00	95,716.31			1,937,165.30	1,861,538.85
Golden	2,214,697.06	809,450.00	211,376.03			3,235,523.09	2,988,869.26
Revelstoke	1,774,596.50	1,269,831.00	136,558.88	1,426,481.37		4,607,467.75	4,657,841.17
Creston	1,608,882.95	838,768.00	119,934.64			2,567,585.59	2,544,533.38
Region/District 4 - Prince George	2,439,295.09		196,069.87			2,635,364.96	2,174,599.60
Prince George	3,775,273.03	2,331,865.00	428,133.23	32,251.02		6,567,522.28	6,058,765.21
Quesnel	3,249,468.12	1,580,230.00	210,106.95	93,273.09		5,133,078.16	5,289,746.48
Dawson Creek	3,500,906.65	2,350,884.00	243,085.02	282,777.48		6,377,653.15	5,900,178.82
Fort St. John	3,659,689.04	1,654,615.00	322,935.63	366,551.96		6,003,791.63	5,617,099.48
Vanderhoof	2,578,979.75	990,926.00	255,940.95			3,825,846.70	3,610,174.06

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1982/83

VOTE 078 HIGHWAY MAINTENANCE
- Continued -

HIGHWAY DISTRICT	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	82-83 TOTAL $	81-82 TOTAL $
McBride		1,849,259.53	1,292,546.00	227,813.56			3,369,619.09	2,940,365.87
Williams Lake		4,233,221.20	1,088,386.00	420,713.04			5,742,320.24	5,487,001.94
Region/District 5 - Terrace		1,231,940.07		99,806.92			1,331,746.99	1,433,249.38
Prince Rupert		2,844,408.25	885,786.00	221,445.87	680,807.36		4,632,447.48	4,945,696.32
Terrace		1,699,925.17	760,118.00	212,958.05	112,030.19		2,785,031.41	3,585,009.13
Dease Lake		2,545,338.10	1,224,897.00	145,258.49			3,915,493.59	3,653,407.61
Smithers		2,321,262.13	1,002,761.00	184,824.22			3,508,847.35	3,356,883.49
Burns Lake		1,875,373.72	983,327.00	93,624.11	1,402,901.87		4,355,226.70	4,783,313.85
Region/District 6 - Nanaimo		1,564,808.53		54,193.76			1,619,002.29	1,244,282.73
Nanaimo		4,370,474.51	198,074.00	229,284.92	5,416.00		4,803,249.43	3,929,571.12
Saanich		5,040,436.29	206,968.00	233,857.79			5,481,262.08	4,587,362.73
Port Alberni		3,437,348.85	306,561.00	244,400.08	417,831.40		4,406,141.33	3,653,830.58
Courtenay		5,030,823.52	521,600.00	439,144.51			5,991,568.03	5,132,615.79
Region 6 Ferry District					17,889,319.23		17,889,319.23	15,981,340.29
ROADS GENERALLY								
PROJECTS:								
E-0067-Traffic branch (Hdqtrs.operations).......	470,650.14							
E-0068-Street lighting and traffic signals..........	1,434,754.03							
E-1695-Salary contingency recoveries(Traffic Branch)	4,408.46cr							
F-0041-Leases and agreements.....	323,708.98							
F-0043-Taxes.....................	8,816.89							
F-0044-Publicity.................	127,821.28							
F-0045-Legal expenses............	807.81							
F-0046-Engineers-in-training.....	175,724.39							
F-0047-Sundry projects...........	77.92							
F-0048-Damage claims.............	53,219.09							
F-0049-Insurance-re trailer moves & household effects.	35,607.00							

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1982/83

VOTE 078 HIGHWAY MAINTENANCE
- Continued -

	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	82-83 TOTAL $	81-82 TOTAL $
ROADS GENERALLY - continued								
PROJECTS:								
F-0051-Miscellaneous............	63,025.59							
F-0052-Grants, engineering and dyking....................	53,922.38							
F-1802-Reimbursement for union leave without pay.........	49,972.32cr							
H-0060-Highway signs operations (financing)...............	333,333.28cr							
H-1696-Salary contingency recoveries(Equipment Services Branch)..........	5,609.23cr							
M-0042-Automatic signals, railway	473,417.68							
M-0053-Maintenance management (Headquarters operations).	37,817.22cr							
M-0054-Sandbag and flood prevention......................	66,585.71							
M-0055-Avalanche control.........	355,580.14							
M-0056-Scenic highway act........	1,923.95							
M-1694-Salary contingency recoveries(Maintenance Services branch)..........	3,917.24cr							
M-2371-Stewart to Granduc Mine Road, winter maintenance assistance grant..........	325,000.00							
O-0062-Planning Branch (Hdqtrs. operations)................	301,234.53							
T-1194-Highways road maintenance -base occupancy charges...	17,765,213.15							
T-1196-Highways road maintenance -tenant improvement charges	900,041.00							
Z-1237-Avalanche monitoring system....................	42,185.27							

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1982/83

VOTE 078 HIGHWAY MAINTENANCE
- Continued -

	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	82-83 TOTAL $	81-82 TOTAL $
ROADS GENERALLY - continued								
PROJECTS:								
Z-1238-Systems and programs engineer..................	2,227.00							
Z-1239-Planning..................	162,019.54							
Z-1240-Maintenance management....	181,549.94							
Z-1241-Shared equipment..........	784,050.49							
Crushing operations.......	2,658,462.48							
Guardrail manufacture and purchases.................	861,255.19							
Mixing operations.........	998,307.28							
Intra-Ministry material use credits..............	10,428,139.93cr	17,763,991.17					17,763,991.17	5,356,013.51
BRIDGES GENERALLY								
PROJECTS:								
B-0058-Bridge damage.............	13,717.60							
B-0059-Bailey bridges............	332,562.70			346,280.30			346,280.30	595,083.44
FERRIES GENERALLY								
PROJECTS:								
H-0061-Ferries generally.........	97,597.21							
T-1198-Highways ferries base occupancy charges.........	205,299.59							
Z-1242-Ferry management system...	56,148.44				359,045.24		359,045.24	69,533.22

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1982/83

VOTE 078 HIGHWAY MAINTENANCE
- Continued -

		ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	82-83 TOTAL $	81-82 TOTAL $
MACHINERY GENERALLY								
PROJECTS:								
H-0063-Machinery (Hdqtrs. maintenance and operations generally)................	2,492,010.85							
H-0064-Autoplan insurance........	843,487.00							
H-0065-Radio-telephone maintenance...............	503,774.86							
H-0066-Machinery replacement.....	9,809.93							
H-1310-Machinery and equipment replacement..............	4,189,977.76							
Z-1243-Equipment management system...................	191,160.25							
-Machinery maintenance and operation - districts....	39,206,834.69							
-Intra-Ministry equipment rental credits...........	59,800,776.06cr					12,363,720.72cr	12,363,720.72cr	2,616,098.90cr
		143,626,361.36	35,923,545.00	9,892,983.31	30,067,261.27	12,363,720.72cr	207,146,430.22	190,976,204.61

SUMMARY OF CAPITAL AND MAINTENANCE EXPENDITURES FOR ROADS, BRIDGES,
FERRIES, LEGAL SURVEYS, RIGHTS-OF-WAY, HARDSURFACING, ETC. FOR
THE FISCAL YEAR 1982-83
(FOR DETAILS SEE FOLLOWING SCHEDULES BY ELECTORAL DISTRICTS)

ELECTORAL DISTRICTS	VOTE 078 HWY.CONSTR.	BILL 7	VOTE 079 HYDRO DEVEL.	TOTAL CAPITAL	MAINTENANCE	TOTAL
	$	$	$	$	$	$
Alberni	3,083,899.37	-	-	3,083,899.37	2,608,627.07	5,692,526.44
Atlin	4,104,059.63	-	-	4,104,059.63	6,037,357.55	10,141,417.18
Boundary-Similkameen	4,076,913.02	-	-	4,076,913.02	5,989,080.21	10,065,993.23
Burnaby-Edmonds	2,304,635.58	-	-	2,304,635.58	2,152,163.35	4,456,798.93
Burnaby North	111,667.52	-	-	111,667.52	174,224.73	285,892.25
Burnaby-Willingdon	589,999.46	-	-	589,999.46	205,219.24	795,218.70
Cariboo	12,455,583.89	-	-	12,455,583.89	15,127,199.96	27,582,783.85
Central Fraser Valley	266,638.10	-	-	266,638.10	671,539.14	938,177.24
Chilliwack	3,397,642.39	-	-	3,397,642.39	1,783,777.00	5,181,419.39
Columbia River	1,155,400.22	-	-	1,155,400.22	4,503,189.98	5,658,590.20
Comox	6,178,832.76	-	-	6,178,832.76	8,841,768.27	15,020,601.03
Coquitlam-Moody	3,173,532.30	-	-	3,173,532.30	357,695.65	3,531,227.95
Cowichan-Malahat	909,916.13	-	-	909,916.13	3,992,339.87	4,902,256.00
Delta	12,493,033.86	20,188.82	-	12,513,222.68	917,775.06	13,430,997.74
Dewdney	2,471,761.21	-	-	2,471,761.21	2,155,354.08	4,627,115.29
Esquimalt-Port Renfrew	1,042,939.77	-	-	1,042,939.77	2,872,452.56	3,915,392.33
Kamloops	11,261,608.50	-	-	11,261,608.50	8,828,306.60	20,089,915.10
Kootenay	3,776,848.30	-	-	3,776,848.30	3,343,313.91	7,120,162.21
Langley	235,994.28	-	-	235,994.28	1,570,714.70	1,806,708.98
Mackenzie	5,602,635.24	-	-	5,602,635.24	6,008,541.43	11,611,176.67
Maillardville-Coquitlam	437,554.19	-	-	437,554.19	195,821.91	633,376.10
Nanaimo	6,538,600.77	-	-	6,538,600.77	7,147,678.56	13,686,279.33
Nelson-Creston	3,051,437.69	-	-	3,051,437.69	11,633,368.30	14,684,805.99
New Westminster	6,176,081.63	20,188.82	-	6,196,270.45	107,900.68	6,304,171.13
North Island	1,363,487.56	-	-	1,363,487.56	8,357,464.07	9,720,951.63
North Peace River	4,865,631.14	-	-	4,865,631.14	6,003,791.63	10,869,422.77
North Vancouver-Capilano	463,674.03	-	-	463,674.03	604,463.25	1,068,137.28
North Vancouver-Seymour	609,057.70	-	-	609,057.70	675,722.69	1,284,780.39
Oak Bay-Gordon Head	16,644.00	-	-	16,644.00	77,140.02	93,784.02

ELECTORAL DISTRICTS	VOTE 078 HWY.CONSTR.	BILL 7	VOTE 079 HYDRO DEVEL.	TOTAL CAPITAL	MAINTENANCE	TOTAL
	$	$	$	$	$	$
Okanagan North	4,698,149.51	-	-	4,698,149.51	5,669,889.43	10,368,038.94
Okanagan South	10,637,590.79	-	-	10,637,590.79	2,243,588.94	12,881,179.73
Omineca	2,708,445.73	-	-	2,708,445.73	8,715,506.10	11,423,951.83
Prince George North	8,596,748.67	-	-	8,596,748.67	2,688,760.36	11,285,509.03
Prince George South	3,190,013.32	-	-	3,190,013.32	8,947,421.63	12,137,434.95
Prince Rupert	3,086,559.76	-	-	3,086,559.76	2,947,928.51	6,034,488.27
Richmond	737,943.84	-	-	737,943.84	1,234,415.58	1,972,359.42
Rossland-Trail	1,458,226.66	-	-	1,458,226.66	2,967,156.38	4,425,383.04
Saanich and the Islands	1,004,607.98	-	-	1,004,607.98	2,601,072.69	3,605,680.67
Shuswap-Revelstoke	4,001,805.42	-	17,800,247.80	21,802,053.22	10,215,937.97	32,017,991.19
Skeena	11,033,293.22	-	-	11,033,293.22	6,978,848.06	18,012,141.28
South Peace River	45,078,097.30	-	-	45,078,097.30	6,377,653.15	51,455,750.45
Surrey	782,552.46	-	-	782,552.46	2,229,627.35	3,012,179.81
Vancouver Centre	95,705.39	-	-	95,705.39	225,164.35	320,869.74
Vancouver East	155,875.77	-	-	155,875.77	195,334.73	351,210.50
Vancouver-Little Mountain	-	-	-	-	-	-
Vancouver-Point Grey	61,269.05	-	-	61,269.05	156,057.33	217,326.38
Vancouver South	-	-	-	-	135,181.24	135,181.24
Victoria	-	-	-	-	-	-
West Vancouver-Howe Sound	8,104,988.94	-	-	8,104,988.94	3,967,681.47	12,072,670.41
Yale-Lillooet	14,145,704.37	-	-	14,145,704.37	12,548,460.13	26,694,164.50
Planning and Engineering Services, Headquarters	22,603,924.90	-	-	22,603,924.90	13,156,753.35	35,760,678.25
	244,397,213.32	40,377.64	17,800,247.80	262,237,838.76	207,146,430.22	469,384,268.98

HEADQUARTERS

	$	$	$
HIGHWAY MAINTENANCE			
Roads Generally			
Project E-0067 - Traffic branch (Headquarters Operations)		470,650.14	
E-0068 - Street lighting and traffic signals		1,434,754.03	
E-1695 - Salary contingency recoveries(Traffic Branch)		4,408.46cr	
F-0041 - Leases and agreements		323,708.98	
F-0043 - Taxes		8,816.89	
F-0044 - Publicity		127,821.28	
F-0045 - Legal expenses		807.81	
F-0046 - Engineers-in-training		175,724.39	
F-0047 - Sundry projects		77.92	
F-0048 - Damage claims		53,219.09	
F-0049 - Insurance re trailer moves and household effects		35,607.00	
F-0051 - Miscellaneous		63,025.59	
F-0052 - Grants, engineering and dyking		53,922.38	
F-1802 - Reimbursement for Union Leave without pay		49,972.32cr	
H-0060 - Highway signs operation (financing)		333,333.28cr	
H-1696 - Salary contingency recoveries(Equipment Services Branch)		5,609.23cr	
M-0042 - Automatic signals, railway		473,417.68	
M-0053 - Maintenance Management (Headquarters Operations)		37,817.22cr	
M-0054 - Sandbag and flood prevention		66,585.71	
M-0055 - Avalanche control		355,580.14	
M-0056 - Scenic Highway Act		1,923.95	
M-1694 - Salary contingency recoveries(Maintenance Services Branch)		3,917.24cr	
O-0062 - Planning branch (Headquarters Operations)		301,234.53	
T-1194 - Highways road maintenance-base occupancy charges		17,765,213.15	
T-1196 - Highways road maintenance, tenant improvement charges		900,041.00	
Z-1237 - Avalanche monitoring system		42,185.27	
Z-1238 - Systems and Programs Engineer		2,227.00	
Z-1239 - Planning		162,019.54	
Z-1240 - Maintenance Management		181,549.94	
Z-1241 - Shared equipment		784,050.49	
Centreline marking		4,805,253.53	
Crushing operations		2,658,462.48	
Dock District (uncleared B.C. Ferry Corporation charges and other miscellaneous operating expenses)		691,369.64	
Electrical maintenance generally		1,879,534.19	
Guardrail manufacture and purchases		861,255.19	
Mixing operations		998,307.28	
Intra-ministry material use credits		10,428,139.93cr	24,815,148.53

HEADQUARTERS

	$	$	$
Bridges generally			
Project B-0058 - Bridge damage		13,717.60	
B-0059 - Bailey bridges		332,562.70	346,280.30
Ferries generally			
Project H-0061 - Ferries generally		97,597.21	
T-1198 - Highways Ferries base occupancy charges		205,299.59	
Z-1242 - Ferry management system		56,148.44	359,045.24
Machinery generally			
Project H-0063 - Machinery (Headquarters Maintenance and Operations generally)		2,492,010.85	
H-0064 - Autoplan insurance		843,487.00	
H-0065 - Radio-telephone maintenance		503,774.86	
H-0066 - Machinery replacement		9,809.93	
H-1310 - Machinery and equipment replacement		4,189,977.76	
Z-1243 - Equipment management system		191,160.25	
Machinery maintenance and operation - Districts		39,206,834.69	
Intra-Ministry equipment rental credits		59,800,776.06cr	12,363,720.72cr

HIGHWAY CONSTRUCTION AND IMPROVEMENTS

	$	$	$
Roads:			
Construction Branch:			
Project C-0089 - Construction generally		1,486,905.96	
C-0090 - Construction overhead		151,978.49	
C-1700 - Salary contingency recoveries		121,731.22cr	
T-1202 - Base occuparcy charges		94,094.34	
Z-1251 - Construction Branch		20,002.28	1,631,249.85
Equipment Services Branch:			
Project H-0088 - Scientific and technical equipment		490,889.82	
H-0112 - Radio-telephone installations-capital		223,840.03	
H-0115 - Equipment and machinery-capital purchases		295,551.97	1,010,281.82
Roadside Development and Landscape Branch:			
Project D-0004 - Headquarters research and general expenses			91,082.42
Bridges and Ferries:			
Bridge Branch:			
Project B-0022 - Bridge steel		144,484.24cr	
B-0281 - Bridge Design and Engineering Services		1,895,636.08	
B-0739 - Bridge redecking, Trans Canada Highway and General Highways		1,468,680.04	
B-1699 - Salary contingency recoveries		37,992.23cr	
Z-1252 - Bridge design		56,943.40	3,238,783.05

HEADQUARTERS

	$	$	$
Ferries:			
Project H-1653 - M.V.Sechelt Queen, removal of equipment, etc., prior to sale			22,870.28
Paving Branch:			
Project S-0084 - Miscellaneous surface seals		399,501.57	
S-0085 - Miscellaneous drum mix paving		76,897.25	
S-0086 - Paving generally		859,265.11	
S-0087 - Surveys and investigations		1,606,800.85	
S-1698 - Salary contingency recoveries		97,379.37cr	
T-1204 - Base occupancy charges		584,435.16	
T-1205 - Tenant improvement charges		82,359.00	3,511,879.57
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Staff training expenses	15,049.12		
-Surveys generally	1,604,062.28	1,619,111.40	
L-0111 - Archaeological explorations		89,989.53	
L-1701 - Salary contingency recoveries		141,158.29cr	
Z-1245 - Design and Surveys		399,586.70	1,967,529.34
Traffic Branch:			
Project E-0003 - Signs, signals and traffic control		1,550,005.50	
E-1697 - Salary contingency recoveries		8,997.40cr	
Z-1247 - Traffic Engineering		15,220.22	1,556,228.32
Planning Branch:			
Project Z-1244 - Evaluation of needs, data processing			233,825.59
Geotechnical and Materials Engineering Branch:			
Project G-0107 - Geotechnical and materials testing		8,287,877.33	
G-1364 - Northeast Coal Development road projects		131,728.83	
G-1702 - Salary contingency recoveries		99,638.37cr	
T-1206 - Base occupancy charges		677,178.69	
T-1207 - Tenant improvement charges		154,876.00	
Z-1246 - Geotechnical		150,316.19	9,302,338.67
Highway Safety Branch:			
Project C-0209 - Highway safety measures, general expenses			37,855.99
Total, Headquarters			$35,760,678.25

ALBERNI ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,035,254.25
Snow removal			181,514.77
Bridge maintenance			158,860.05
Ferry maintenance and operation– Barkley Sound Ferry Subsidy			232,998.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour:			
Project C-0122 - Minor Betterments, miscellaneous		1,996.00	
C-0154 - Minor Betterments, miscellaneous		127,686.96	
C-0542 - Beaver Creek Road 1, construct and pave bridge approaches		80,307.17	
N-0397 - Guardrail installation		19,470.39	229,460.52
Construction Branch:			
Project C-3989 - Forest Road, Port Alberni to Cumberland Road (see also Comox)			16,433.51
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Bamfield Road right-of-way through parts of SW1/4 sec.20 and NW1/4 sec.17 Tp1, Barclay District			3,762.58
Bridges and Ferries:			
Day Labour			
Project B-0334 - Deer Creek Bridge 6878		31,054.70	
B-1432 - Forster Bridge, Alberni-Tofino Highway, 40ft boxbeams and abutments		24,238.03	55,292.73
Paving Branch:			
Project S-0647 - Highway 4 - Alberni-Ucluelet, intermittent recap			2,638,475.28
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Canadian Highway 4, West Boundary Lot 9 to Alberni Junction (see also Comox)		1,668.50	
-Highway 4, Tebo Road to Cherry Creek Road		752.28	
-Minor road surveys		1,277.36	
-Qualicum Bypass, 4 lane		46,712.65	
-Various along Alberni-Tofino Highway (Hwy.4), site plans for bridges, Canoe Creek, Maureen, Forster, Mercer		1,086.00	51,496.79
Traffic Branch:			
Project E-1347 - Route 4 (Johnston Rd.) at Gertrude St., Port Alberni, signal replacement			49,495.96

ALBERNI ELECTORAL DISTRICT - continued

	$	$	$
Highway Safety Branch:			
Project C-0202 - Roadside hazard elimination, Hydro Hill area, Highway 4, rock and ditch trimming			35,482.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113 -Best Road 2			4,000.00
Total, Alberni Electoral District			$5,692,526.44

ATLIN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance		3,753,957.00	
Project M-2371 - Stewart to Granduc Mine Road, winter maintenance assistance grant		325,000.00	4,078,957.00
Snow removal			1,705,837.10
Bridge maintenance			252,563.45
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0147 - Minor Betterments, miscellaneous		126,548.22	
C-0149 - Minor Betterments, miscellaneous		288,960.47	
C-0174 - Highway 37 and 37A Surprise Cr.to Nass River, construction		195,576.07	
C-1524 - Highway 37A, Rufus Creek Bridge, replace existing bridge with multiplate pipe arch (culvert)		99,877.24	
C-1527 - Highway 37, Mud Hill to Yukon Border, resurfacing		174,761.52	
C-1528 - Various Atlin Streets, major drainage improvements		100,478.62	
C-1529 - Highway 37, Tanzilla River to Stikine River, road base strengthening and drainage improvements		199,513.30	
C-1530 - Atlin Highway at Surprise Lake Road, intersection improvements		50,000.00	
N-0390 - Guardrail installation		16,421.22	
N-0394 - Guardrail installation		6,655.00	1,258,791.66

ATLIN ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch:			
Project C-1723 - Cassiar Highway 37, Cranberry Crossing 1 to Derrick Creek, grading		4,907.00	
C-3321 - Highway 37, Derrick Creek to D.L.3411, Kitwanga to Meziadin Lake, reconstruction		51,897.20	
C-3913 - Cassiar Highway 37 D.L. 1879 to Cranberry Bridge 1,construction. Inventory mile 28.94 to mile 41.33 subdivision 3710 Sta.1462+00 to Sta.2064+30 (11.41 miles)		48,025.00	104,829.20
Bridges and Ferries:			
Day Labour			
Project B-1408 - Glacier Creek, Highway 37, multiplate		90,000.00	
B-1435 - Rufus Bridge, Highway 37A, replace		99,834.45	
B-1436 - Ritchie Bridge, rebuild and widen		28,620.28	
B-1790 - Hitchcock Cr. Bridge, reconstruction		19,598.98	
B-1792 - Oweegee Creek Bridge, reconstruction		23,032.87	
B-1793 - Spruce Creek Bridge, reconstruction		13,000.00	274,086.58
Bridge Branch:			
Project B-0557 - Bear River Bridge 1, Highway 37A		49,542.60	
B-1102 - Greenville Bridge over Nass River		2,278,843.39	2,328,385.99
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, Road graded seal, Pinetree Lake-Deep Creek (Cassiar Junction)		914.00	
S-5102 - Highway 37, Derrick Creek to Nass River(62.0km)		5,469.00	6,383.00
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aiyansh Junction-Greenville		69,218.32	
-Highway 37, Dease Lake-Sawmill Point		54,144.49	
-Stewart to Cassiar site plans for miscellaneous bridges on Stewart-Cassiar Highway		6,429.63	
-Terrace to Nass River Road, Cedar River to Tseax junction		1,790.76	131,583.20
Total, Atlin Electoral District			$10,141,417.18

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,003,738.03
Snow removal			1,721,963.63
Bridge maintenance			263,378.55

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0018 - 30 North Fork, reconstruct and pave		176,470.66	
C-0019 - 28 Gilpin Road, reconstruct and gravel		15,635.00	
C-0126 - Minor Betterments,			
-Flood repairs	54,555.04		
-Miscellaneous	200,137.81	254,692.85	
C-0130 - Minor Betterments, miscellaneous		3,926.24	
C-0133 - Minor Betterments, miscellaneous		218,380.19	
C-0472 - Princeton area, miscellaneous roads, upgrading (see also Yale-Lillooet)		3,634.95	
C-0473 - Keremeos area, miscellaneous roads, upgrading		77,434.24	
C-0474 - Oliver area, miscellaneous roads, upgrading		57,263.50	
C-0821 - Penticton area, miscellaneous roads, upgrading		57,270.65	
C-0838 - Highway 33, Westbridge-McCulloch junction, construction		109,981.00	
C-1473 - Highway 97, various left turn slots, construction (see also Okanagan North and Okanagan South)		1,740.18	
C-1486 - Highway 33, Westbridge north, shouldering		70,000.00	
C-1487 - Highway 3, Boundary Park and Boundary Road left turn slots		47,000.00	
C-1559 - Highway 3 at Midway, left turn slot		100,000.00	
C-1779 - Junction Highway 3 and 41 intersection improvements		51,052.15	
C-3666 - Highway 33, Rock Creek-Kelowna, reconstruct and pave		29,687.77	
D-1553 - Rest area upgrading		9,787.92	
N-0376 - Guardrail installation		363.06	
N-0377 - Guardrail installation		53,491.60	
N-0383 - Guardrail installation		48,727.96	
W-0348 - Fencing Schedule 2 Highways		38,172.45	
W-0352 - Fencing Schedule 2 Highways		24,699.88	1,449,412.25
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Copper Mountain Road 24 through D.L.1822 S.D.Y.D.		6,600.00	
-Easement in lot 4 plan 29373 D.L.374 and Lot 7 Plan 20252 D.L.551 S.D.Y.D.		100.00	
-Highway 33, Rock Creek-Kelowna from S.Bdy.NE 1/4 Sec.36 TP67 to N.Bdy.D.L.156		3,146.94	
-Kelowna-Rock Creek Highway 33 through part of D.L.375 S.D.Y.D.		699.85	
-Martin Street-Main Street connector in part D.L.202 S.D.Y.D.		1,186.61	
-Naramata Road in lot 19 Plan 576 D.L.209 S.D.Y.D.		455.93	
-Naramata Road through District Lot 206 S.D.Y.D.(formerly Osoyoos)		11,012.27	
-Okanagan Highway 97 through Osoyoos Indian Reserve 1 B.C.		3,324.38	

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Plan of Subdivision of part of Lot 191, Plan 575 D.L.266, S.D.Y.D.and Naramata Road right-of-way		1,619.23	
-Sage Mesa-West Bench connector Lot 119, plan 8166,D.L.5076 and D.L.5076 O.D.Y.D.,except plans 13181, 8166, 8224, 5817 and 8224		461.33	
-Southern Trans Provincial Hwy.3 and west Kootenay Power and Light R/W in Parcel B,closed road Plan H16434,S.D.Y.D.		144.38	
-Sutherland Creek Road 40 in Plan B1675 D.L.2806 S.D.Y.D.		1,160.02	29,910.94
Bridges and Ferries:			
Day Labour			
Project B-0306 - Green Mountain Bridge		61,859.92	
B-1440 - Princeton-Hedley Bridge, reconstruct		94,991.33	
B-1500 - Kettle River Bridge, major repairs		43,000.00	
B-1501 - Kettle Valley Bridge, major repairs		34,287.90	
B-1662 - Texas Creek Bridge, replacement		46,075.64	280,214.79
Paving Branch:			
Project S-0085 - Miscellaneous drum mix paving			
-33 Rock Creek 11.5 km	1,886.01		
-Highway 33, Rock Creek to a point north of Carmi (Beaverdell area) 37.5km	1,624,119.22	1,626,005.23	
S-1599 - Highway 3,Keremeos (West), intermittent patch paving		166,484.29	
S-1686 - Highway 97,Summerland to Peachland section, intermittent paving (see also Okanagan South)		5,975.23	1,798,464.75
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Keremeos Creek Road, Twin Lake Golf Club		3,972.15	
-Minor road surveys		30,322.25	
-Penticton Channel Parkway		157,853.42	
-Southern Trans Provincial Highway, Hedley-Keremeos		7,106.17	
-Trout Creek Hill to Summerland		3,609.89	202,863.88
Traffic Branch:			
Project E-0972 - Route 97 at Airport Road, Penticton, traffic signal installation		13,153.60	
E-1183 - Route 3 at 97th Street East Grand Forks,Central Ave., signal installations, and Route 3 at 13th Street West,lighting installation		26,632.68	39,786.28
Highway Safety Branch:			
Project C-0205 - General Safety Works, improvements to "Suicide" corner location code: 003 1310 48.1km			53,902.00

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Brown Creek Road North 155		1,668.00	
-Crowsnest Highway 3		2.00	
-Dupee Road 220		2.00	
-East Lake Drive 49		558.00	
-Gilpin Road		1.00	
-Gravel Pits		2,772.94	
-Green Mountain Road 78		1.00	
-Highway 3, Hedley to Keremeos		3,000.00	
-Highway 97, McAlpine Bridge-Vasseaux Lake		1,080.00	
-Highway 97, Okanagan Falls		139.00	
-Ingram Mountain Road 36		12,916.00	
-Keremeos Bypass Road 57-1		10,000.00	
-Lakehill Road 53		3,600.00	
-Manly Meadows Road		66,365.68	
-Martin Street-Main Street, reconstruction, Penticton		1.00	
-Naramata Road		1,526.00	
-Oak Avenue		1,006.00	
-Parsons Road		15,376.36	
-Penticton Channel Parkway		5,396.27	
-Princeton-Summerland Road 40		1.00	
-Rock Creek-Kelowna Highway 33		52,970.63	
-Southern Trans Provincial Highway 3-Copper Mountain		1,700.00	
-Wiggins Road 221		1.00	180,083.88
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1617 - Village of Oliver, damage to Park Drive due to traffic diversion			1,000.00
Secondary Highway Construction and Improvements:			
Project V-1178 - 135B, Naramata Road, City of Penticton			41,274.25
Total, Boundary-Similkameen Electoral District			$10,065,993.23

BURNABY-EDMONDS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,105,358.91
Snow removal			15,088.94
Bridge maintenance			31,715.50
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		5,974.72	
W-0793 - Fencing Schedule 2 Highways		12,586.86	18,561.58

BURNABY-EDMONDS ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch:			
Project C-1121 - Marine Way, Byrne Road to North end of Queensborough Bridge, grade construction (see also New Westminster)			2,187,735.15
Paving Branch:			
Project S-1748 - Kingsway, Edmonds to Boundary Road(see also Burnaby-Willingdon)		727.16	
S-1754 - Highway 1,Trans Canada Sections, Capilano Bridge to east of Port Mann Bridge(see also Maillardville-Coquitlam and North Vancouver-Seymour)		487.53	1,214.69
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-From Edmonds Street to 10th Avenue for new curb and gutter construction	8,151.00		
-Minor road surveys	1,176.85		
-Old Trans Canada Highway (Kingsway Hwy.)from Boundary Road to 10th Avenue	9,445.69	18,773.54	
L-0558 - Fraser River Crossing (Annacis Island),Byrne to Queensborough Bridge		52,118.70	70,892.24
Traffic Branch:			
Project E-1179 - Gaglardi Way at Cariboo Road,Burnaby,signal installation and lighting revision			26,231.92
Total, Burnaby-Edmonds Electoral District			$4,456,798.93

BURNABY NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			163,658.63
Snow removal			8,322.10
Bridge maintenance			2,244.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		5,974.73	
C-1481 - Highway 7A,Willingdon to Gilmore, grind and pave westbound lanes		49,930.88	
N-0370 - Guardrail installation		9,100.00	65,005.61
Legal Surveys Office:			
Legal Surveys - Project L-0099 -			
-Trans Canada Highway closure in Plan 26009 within D.L.14,Group 1, N.W.D.			1,441.49

BURNABY NORTH ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch			
Surveys Generally - Project L-0101			
-Barnet Highway from Sperling Avenue to Clarke Road (see also Coquitlam-Moody)		359.85	
-Simon Fraser University access roads		3,280.57	3,640.42
Traffic Branch:			
Project E-1676 - Gaglardi at Broadway, Burnaby,traffic signal revision			22,580.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113-			
-Broadway Ave. Gaglardi Way to North Road			19,000.00
Total, Burnaby-North Electoral District			$285,892.25

BURNABY-WILLINGDON ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			168,844.46
Snow removal			8,349.39
Bridge maintenance			28,025.39
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-3997 - Marine Way,Greenall to Byrne, Burnaby,gravelling and paving			395,921.20
Paving Branch:			
Project S-1748 - Kingsway,Edmonds to Boundary Road(see also Burnaby-Edmonds)			1,411.54
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Burris St. & Edmonds St. with Canada Way intersection surveys for channelization			25,331.10
Traffic Branch:			
Project E-1658 - Marine Way at Byrne Road and Nelson Avenue,Burnaby, lighting installation		26,102.00	
E-1796 - Route 1A (Kingsway) Patterson-Edmonds, Burnaby, conduit,pedestal and junction box installation		42,816.14	68,918.14
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Canada Way and Burris Street		5,258.50	
-Lougheed Highway		12,039.25	
-Marine Way, Byrne to Queensborough Bridge		81,119.73	98,417.48
Total, Burnaby-Willingdon Electoral District			$795,218.70

CARIBOO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			10,604,140.32
Snow removal			3,518,187.89
Bridge maintenance			807,334.38
Ferry maintenance and operation-			
Big Bar Ferry		104,264.28	
Marguerite Ferry		93,273.09	197,537.37
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0128 - Minor Betterments, miscellaneous		22,766.72	
C-0129 - Minor Betterments, -108 Mile area roads, miscellaneous patching	50,000.00		
-Miscellaneous	288,973.33	338,973.33	
C-0141 - Minor Betterments, miscellaneous		415,601.18	
C-0146 - Minor Betterments, miscellaneous		310,574.46	
C-0172 - Horsefly Road, reconstruction		303,804.13	
C-0445 - Miscellaneous school bus routes, Quesnel, upgrade and reconstruct(see also Prince George South)		587,389.07	
C-0881 - Highway 20, Indian Reserve to Alexis Creek, reconstruction		1,146,004.87	
C-0883 - Highway 20, miscellaneous gravelling		117,935.17	
C-1475 - Miscellaneous roads in 100 Mile House area, gravelling and ditching		163,847.32	
C-1476 - Highway 24 and Horse Lake, widen and stabilize shoulders		100,242.22	
C-1516 - Marsh Drive, 4 laning, bridge approach and utilities		8,900.00	
C-1517 - Highway 26 and 97, miscellaneous skin pavement patching		109,838.60	
C-1518 - Richards, Teofil, Camp Creek and Hill Roads, reconstruct and gravel		199,505.05	
C-1522 - Pigeon Road, 150 Mile House, construct left turn lane		55,182.45	
C-1556 - Highway 20, Anahim Lake to Nimpo Lake, gravel and stabilization		121,930.75	
C-1564 - Highway 24, reconstruction		518,630.42	
C-1576 - Loon Lake Road, Baker Bridge approaches		24,982.60	
C-1603 - Highway 20, Lee's Corner, reconstruction		195,397.55	
C-1630 - Abel Lake Road, construct new access		58,672.25	
C-4156 - Barkerville Highway 26, reconstruction, Mitchell Bridge elimination		139,253.25	
C-4176 - Highway 24, Bridge Lake to Little Fort, reconstruction		475,672.54	
C-4244 - Miscellaneous school bus and farm roads, Williams Lake, reconstruct and gravel		79,393.88	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
Project C-4499 - Likely Road, improve sight distance and minor corner removal, km 55 to km 65		99,728.88	
D-0010 - Rest area upgrading		14,745.02	
D-1553 - Rest area upgrading		5,000.00	
N-0380 - Guardrail installation		9,198.00	
N-0430 - Guardrail installation		29,147.05	
N-0435 - Guardrail installation		35,999.88	
W-0351 - Fencing Schedule 2 Highways		93,056.20	
W-0357 - Fencing Schedule 2 Highways		112,433.61	
W-0362 - Fencing Schedule 2 Highways		120,000.67	6,013,807.12
Construction Branch:			
Project C-3953 - Route 97,Williams Lake, to 150 Mile House,passing lanes			20,000.00
Legal Surveys Office:			
Legal Surveys - Project L0099			
-1127 Casselman Road through D.L. 456,600 Chilko-Newton Road through D.L.456 Cariboo District		1,703.15	
-83 Mile Road 368 W.Bdy.D.L. 8418 to Rem.D.L.728 Cariboo District		17,710.39	
-93 Mile-Little Fort Highway 24 E.Bdy.D.L.4275 to S.Bdy. D.L. 1890 C.D.		140.00	
-Baker Creek Road within Lot A, Plan B7244 and Lot 4,Plan 5895, Town of Quesnel, D.L.704,Cariboo District		839.97	
-Barkerville Hwy.26-Cottonwood Access through Lots A and B Plan 21484 D.L.380 Exp.Pl.to consolidate closed road and Lot A Plan 21484		1,565.75	
-Cariboo Highway R/W widening through D.L.2914 Cariboo District		1,764.30	
-Cariboo Highway Subdivision plan to consolidate part of Lot 2 Plan 11222 with remainder of Lot A Plan 17160 D.L.3948 Cariboo		788.99	
-Cariboo Highway through part of D.L.5055, Cariboo District		500.00	
-Cariboo Highway widening in Lot 1 Plan 7391,Lots 5 and 6 Plan 7904-D.L.8817 Cariboo District		1,411.52	
-Cariboo Highway, Two Mile Flat Quesnel through D.L. 5014 C.D.		7,043.40	
-Cariboo Highway-Two Mile Flat, Quesnel through D.L.'s 5011 and 5012 C.D.		2,500.00	
-Chilcotin-Bella Coola Highway 20W.Bdy. Lot 405 to W.Bdy Lot 277 R3 C.D.		750.73	
-Chilcotin-Bella Coola Highway 20, E.Bdy.Sec.25 to W.Bdy.Sec.19, Tp52 L.D.		132.93	
-Chilcotin-Bella Coola Highway over Lot 3,Plan 11670 and remainder Lot 3,Plan 7280 D.L.8839 Cariboo District		1,068.09	
-Chilcotin-Bella Coola Highway through unsurveyed Crown Land, Range 2,Coast District,Tatla Lake		232.25	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L0099			
-Chilcotin-Bella Coola Highway, Redstone Easterly Baliff Bypass W.Bdy.L456 to E.Bdy.D.L.381 Cariboo District		1,236.74	
-Chilcotin-Bella Coola Hwy.20 through part of Anahim's Flat Indian Reserve 1		4,473.67	
-Chilcotin-Bella Coola Hwy.20 E.Bdy.L.381 to W.Bdy.Lot 12248 C.D.		15,019.02	
-Chilcotin-Bella Coola Hwy.through part of Anahim's Flat Indian Reserve 1		8,528.77	
-Horsefly Road No.419 S.Bdy.L 6408 to E.Bdy.L 8523 Cariboo District		15,969.54	
-Likely Road through D.L.'s 91, 129,543,8890,8891,130 and 167, Cariboo District		3,000.00	86,379.21
Bridges and Ferries:			
Day Labour			
Project B-1032 - Baker Bridge, Loon Lake Road, complete reconstruction		87,951.88	
B-1033 - Churn Creek and Faessler Bridge,reconstuction		32,852.14	
B-1193 - Rudy Johnson Bridge, Fraser River N.W.of Williams Lake, purchase of bridge and approaches		35,438.40	
B-1417 - McKnott Bridge,replace		64,984.44	
B-1418 - Cottonwood Bridge 2, major repair		34,920.28	
B-1445 - Gaspard Bridge,reconstruct		28,831.21	
B-1656 - Alexis Creek Bridge, repairs		99,804.49	
B-1712 - Terry Bridge,build new structure		29,864.82	
B-1713 - Ollie Bridge,build new structure		19,780.00	434,427.66
Bridge Branch:			
Project B-0001 - McClarry Bridge, Barkerville Highway		157.21	
B-0536 - Davie Street Pedestrian Overpass, over B.C. Rail at Quesnel		27,555.28	
B-1115 - Baker Creek Bridge, Marsh Drive, Quesnel,improvement and widening		268,202.97	295,915.46
Paving Branch:			
Project S-0084 - Miscellaneous surface seals:			
-Hwy.97,Loon Lake Rd.junction (N.Bonaparte Bridge)to the B.C.R. Overpass	15,000.00		
-Junction 97 and 83 Mile to Green Lake Road 11.7km, Watch Lake Road-3.4km to 17.0km,junction Lone Butte to Watch Lake Jct.	145,133.47		
-Shoulder/Road Seal Grade,Lac La Hache-Hinche Road	31,911.25	192,044.72	
S-0085 - Miscellaneous drum mix paving			
-Chasm Road 8.0 km	691.02		
-Kelly Road 18.0 km	997.41	1,688.43	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch - continued:			
Project S-0644 - Williams Lake, Horsefly and Likely areas		27,756.42	
S-1069 - Cache Creek to Loon Lake Road,Hwy.1,section from Oregon Jack to Ashcroft Manor (26.5km)(see also Yale-Lillooet)		1,302,015.90	
S-1454 - Barkerville Hwy.26, Wingdam to Bowron Rd.,asphalt surfacing		2,378,340.14	
S-1573 - Highway 97,Barkerville Road to Plett Road sections, paving		348,191.31	
S-1588 - Hwy.20,Hwy.97 to Fraser River Bridge,intermittent paving (4.5km)		481,525.32	
S-2876 - Chilcotin Highway 20, Riske Creek Section between Big B General Store at Mile 33.7 and end of pavement at Mile 45.9(12.2 miles)		361.47cr.	
S-4706 - Town of Williams Lake and Cariboo Highway 97, Section A: Toop Road to south truck route,storm sewer and curb and gutter Section B: Hwy.97,paving (29.3km)		6,158.82	4,737,359.59
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-13km West of Kleena Kleene		30,687.44	
-150 Mile House,curve realignment		97.40	
-Cariboo Highway 97, 92 Mile House to 83 Mile House		7,912.00	
-Clinton,underpass and approaches		10,811.03	
-Dragon Lake-Quesnel		83,528.93	
-Highway 20,Alexis Creek-Bull Canyon		71,085.86	
-Kleena Kleene Gazette Survey		42,714.89	
-Lac Des Roches to 100 Mile House		2,351.59	
-Lee's Corner,access to Hanceville		698.97	
-Little Fort-Lac Des Roches (see also Kamloops)		4,297.26	
-Minor road surveys		11,132.63	
-North Star interchange,Quesnel		13,952.04	279,270.04
Traffic Branch:			
Project E-1105 - (1) Route 97 at 1st Street,100 Mile House (2) Route 97 at 115 (Likely) Road,150 Mile House,flashing beacon and lighting installations		11,715.40	
E-1577 - Route 97 at North Star Road and Hillborn access road, Quesnel,lighting installations		3,082.00	14,797.40
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Abel Lake Road 412		3,501.00	
-Baker Creek		75,775.00	
-Barkerville Road 26		4,212.00	
-Bates Road 302		1.00	
-Bernard Road 620		2.00	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch - continued:			
Rights-of-way and Property Purchases			
Project P-0113			
-Big Creek Road 299		1,344.86	
-Bradford Road 879		1.00	
-Buffalo Creek Road		1.00	
-Cabbage Road 1148		1,404.75	
-Canim Lake South Road 729		5,593.50	
-Cariboo Highway 97		19,423.98	
-Cariboo Highway 97, Two Mile Flat, Quesnel		5,026.47	
-Cariboo Highway, North Star Road Interchange		4,649.35	
-Cariboo Highway, Truck lanes, Lac La Hache, Williams Lake		692.50	
-Chilcotin-Bella Coola Highway 20		23,153.85	
-Clara Road 998		1.00	
-Gasoff Road 62		125,846.00	
-Gravel Pits		189.43	
-Highway 24		2,805.00	
-Highway 24-93 mile to Little Fort		7,050.00	
-Hydraulic Road 60		1,140.00	
-Keithley Creek Road 105		88,000.00	
-Knife Creek Road		7,315.96	
-Likely Road 115		7,826.32	
-Lily Pad Lake Road 376		3,776.00	
-Loloff Road 46		6,736.00	
-Mackenzie Avenue,curb and gutter		803.96	
-Marsh Road 227		6,000.00	
-North Bonaparte Road 386		775.00	
-Parcel Z,Plan 6422 Cariboo Highway 97		305.83	
-Quesnel Canyon Road 44		434.00	
-Rau Road 103		300.00	
-Tatlayoko Road 405		17,898.47	
-Teofil Road 600		736.00	
-Timothy Lake Road 353		1.00	
-Whitehorse Lake Road 75		3.00	
-Young Road		1.00	422,726.23
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1693 - Williams Lake			150,901.18
Total, Cariboo Electoral District			$27,582,783.85

CENTRAL FRASER VALLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			492,395.00
Snow removal			151,014.00
Bridge maintenance			28,130.14

CENTRAL FRASER VALLEY ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads			
Day Labour			
Project C-0120 - Minor Betterments, miscellaneous		7,949.10	
C-0122 - Minor Betterments, miscellaneous		11,702.00	
C-1777 - Beck Road, bypass construction		35,684.91	
W-0792 - Fencing Schedule 2 Highways		80,000.00	135,336.01
Roadside Development and Landscape Branch:			
Project D-3714 - Trans Canada Highway, Abbotsford(Bradner Road), rest area		21,994.78	
D-3716 - Cole Road Rest Area, Chilliwack, landscape development		52,640.72	74,635.50
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 11, Abbotsford-Mission mapping (see also Dewdney)		3,349.83	
-Highway 401-Peardonville overhead approach		19,607.90	
-Miscellaneous "C" Street, interchange to Lougheed, Mission		30,466.78	
-Sumas River south frontage road (1.0 miles) from Abbotsford to Vedder Canal		342.00	53,766.51
Traffic Branch:			
Project E-1141 - Route 11 at Clayburn, Matsqui, Route 7 at Hawkins Pickle Road, Dewdney flashing beacon and lighting installation (see also Dewdney)			2,820.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Mission Bridge south approach			80.08
Total, Central Fraser Valley Electoral District			$938,177.24

CHILLIWACK ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,322,905.00
Snow removal			407,738.00
Bridge maintenance			53,134.00

CHILLIWACK ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0120 - Minor Betterments, miscellaneous		104,650.94	
C-0122 - Minor Betterments, miscellaneous		6,380.70	
C-0156 - Hemlock Valley Road, widen gravel and drainage		75,000.00	
C-0804 - Rockwell Drive, Greenpoint north, reconstruct		100,000.00	
C-1482 - Trans Canada Highway 1 and Highway 7, miscellaneous patching		100,000.00	386,031.64
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Auchenway Road through Part of District Lots 499 and 792 Group.2 NWD		2,369.00	
-Lundgren Road 101 through part of LS14 Plan 38134 NW 1/4 Sec. 19 Tp21 NWD		1,365.00	
-Right-of-way widening in Rem. of E 1/2 of NW1/4 Sec.30 Tp29 ECM,Trans Canada Highway Annis and Ford Road LTO Plan 51034A		1,344.11	
-Stave Lake Road 153 through Lots 13,14 and 16 Plan 3529 Sec. 11 Tp18 NWD		2,232.50	7,310.61
Paving Branch:			
Project S-0652 - Schedule I: Evergreen Drive and Cheam Avenue, Agassiz (0.542km) Schedule II: Highway 9, North of Agassiz-Rosedale Bridge(1.1km) Schedule III: Highway 1 and miscellaneous streets in Yale (4.03km) (see also Yale-Lillooet)		60,294.06	
S-1405 - Sumas Canal to Chilliwack River Rd. section of the Trans Canada Highway 1 and Yale Road West		2,342,017.37	
S-1574 - Highway 1 and 7,Chilliwack, Hope and Agassiz areas, intermittent paving(11.8km) (see also Yale-Lillooet)		432,986.32	
S-1749 - Highway 1 and 7,Popkum area roads, Lake Errock to junction of Highway 9(see also Dewdney)		14.54	2,835,312.29
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cheam Street in Agassiz curb and gutter,Pioneer to Highway 9		987.18	
-Minor road surveys		6,791.97	
-Trans Canada Highway Gibson Road and Annis Road (underpasses)		24,228.26	
-Weigh Scale (McElwee Road)		7,503.94	39,511.35

CHILLIWACK ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-0740 - Route 1A at 206th Street, Langley, traffic signal and lighting installation		17,151.73	
E-1143 - Route 11,West Railway St. at Essendene Ave.and Essendene Ave.at Gladys St.,Abbotsford, signal and lighting installation		62,037.63	79,189.36
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, -Impact attenuator at C.P. overpass, Route 7 in Agassiz			45,310.64
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Hirschman Road		500.00	
-Lundgren Road		800.00	
-Trans Canada Highway and Princess Street		2.00	
-Yale Road West		3,674.50	4,976.50
Total, Chilliwack Electoral District			$5,181,419.39

COLUMBIA RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,081,795.07
Snow removal			1,185,957.20
Bridge maintenance			235,437.71
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0135 - Minor Betterments, miscellaneous		68,052.57	
C-0137 - Minor Betterments, miscellaneous		231,300.00	
C-0841 - Cranbrook area roads, flushcoat(see also Kootenay)		162,427.03	
C-1492 - Toby Creek cutoff,0.6km to 5.3km,reconstruction		40,000.00	
C-1493 - Highway 95,Stoddard Creek, culvert replacement		48,346.18	
C-1494 - Trans Canada Highway 1, Golden West, correct erosion		50,000.00	
C-1660 - Trans Canada Highway 93/95, shouldering		70,000.00	
C-1753 - Highway 95(Kootenay-Columbia) relocation		17,263.73	
C-1781 - Pighin Road,reconstruct and gravel		60,208.61	
C-1782 - Highway 95A, Wycliffe to Marysville, improvements		47,116.75	
N-0385 - Guardrail installation		9,900.90	
N-0387 - Guardrail installation		38,891.13	
W-0353 - Fencing Shcedule 2 Highways		20,398.17	
W-0355 - Fencing Schedule 2, Highways		27,000.00	890,905.07

COLUMBIA RIVER ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Athalmer Grade separation through part of D.L.267 K.D.		2,878.33	
-Beard's Creek Road 17 and Spence Road 66 in E1/2,NE1/4,Sec.16, and N1/2,Sec.15,Tp.24,R.19,W5M K.D.		6,171.87	
-Houlgrave Road 55 and Neave Road 160 through D.L.'s 376, 7881 and SL82 of DL4596 Plan 1232 K.D.		1,320.39	
-Sec.35 Tp27 to N.Bdy. SW1/4 Sec.11 Tp28 R22 W5M,K.D. Golden Upper Donald Road 42		7,200.58	
-Trans Canada Highway through Part Lot 4 Plan 4691 Section 13 Tp27 R22 W5M K.D.		410.56	17,981.73
Roadside Development and Landscape Branch:			
Project D-1124 - Athalmer Overpass, Invermere, landscape development			29,479.59
Bridges and Ferries:			
Day Labour			
Project B-1659 - Jumbo Bridge,reconstruct		35,000.00	
B-1661 - Spillimacheen Swing Bridge, reconstruct main span		22,000.00	57,000.00
Paving Branch:			
Project S-0084 - Miscellaneous surface seals:			
-Highway 95, Kimberley-Cranbrook			226.66
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Athalmer, Highway 93/95		46,690.21	
-Highway 95A, extensions in Kimberley		6,782.27	
-Lower Toby Creek Road		20,443.11	
-Minor road surveys		14,787.78	
-Radium Hot Springs		304.00	
-Trans Canada Highway Golden-Yoho Bridge		8,370.00	
-Trans Canada Highway, east of Yoho Bridge		9,122.84	
-Village of Invermere 6th Street connection		16,338.61	122,838.82
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Blaeberry School Road 37		4,732.00	
-Bull River South Road		4,516.15	
-Dry Gulch Campsite		1.00	
-Findlay Creek Road		1,870.00	
-Golden Donald Upper Road 42		9,004.10	
-Highway 1, Frontage Road		1.00	
-Lazy Lake Road 32		75.00	
-Pighin Road 72		8,456.80	
-St.Mary's Lake Road		200.00	
-Sylvania Road 153		4.00	
-Thomas Road 309		554.60	
-Wolf Creek Road 41		7,553.70	36,968.35
Total, Columbia River Electoral District			$5,658,590.20

COMOX ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,464,876.75
Snow removal			323,606.70
Bridge maintenance			336,072.60
Ferry maintenance and operation-			
Comox-Powell River Ferry (see also MacKenzie)		2,187,981.26	
Denman Island Ferry		1,490,796.75	
Hornby Island Ferry		853,600.81	
Lasqueti Island Ferry subsidy		184,833.40	4,717,212.22
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		4,012.00	
C-0154 - Minor Betterments, miscellaneous		125,512.06	
C-0155 - Minor Betterments, miscellaneous		81,066.96	
C-1543 - McDonald, Lerwich and Cummings Roads, Courtenay area, widen and gravel		54,092.94	
C-1595 - Craig's Crossing to Lantzville, preparation for paving		102,275.00	
C-1798 - Island Highway 19, Dingwall Road to Black Creek section, widen and reconstruct		114,795.81	481,754.77
Construction Branch:			
Project C-1550 - Connection of Comox Road to Courtenay Bypass		59,585.43	
C-2901 - Highway 19, Lantzville to Craig's Crossing, rock paving and planting of the median at the Nanoose Bay rest area		32,911.00	
C-3989 - Forest Road, Port Alberni to Cumberland Road (see also Alberni)		16,433.50	108,929.93
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Alfred Road 1173 through Lot 2 Plan 10521 Lot A Plan 14228 and Lot 1 Plan 4044 all of Section 84 Comox District		749.75	
-Drainage easement right-of-way over Lots 8 and 9 section 19, Denman, Island, Nanaimo District Plan 23646 (Piercy Road)		946.50	
-Drew Road 544 in D.L.27, Nanoose District		1,082.58	
-Island Highway referencing monuments, Coleman Road to Black Creek		3,645.56	
-Island Highway, 17th Street-Cliffe Ave. through Lot 1 Plan 3171 Block 2 Section 68 Comox District		532.50	
-Lorenzen Lane in D.L.163 Nanoose District		1,345.65	
-Merecroft Road through part of Lot 7 D.L.75		388.60	

COMOX ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Piercy Road drainage easement through Part of Lot 1,Section 9, Township 9, Comox District Plan 24835		109.30	
-Subdivision Plan of part of Lot 5 Plan 2002 D.L.74 Newcastle District Mount Arrowsmith gravel pit		4,313.70	13,114.14
Bridges and Ferries:			
Bridge Branch:			
Project B-0656 - Island Highway 19, Nanoose Overhead duplicate and modifications		200,574.51	
B-1285 - Courtenay River Crossing, 17th Street,Island Highway		201,419.32	
B-1373 - Bonnell Creek Bridge Duplicate and Nanoose Creek Bridge Duplicate,Island Highway		66,335.56	468,329.39
Ferries:			
Project H-1125 - Princess of Vancouver, conversion to roll-on, roll-off vehicle ferry (see also MacKenzie)			4,192,859.69
Paving Branch:			
Project S-1742 - Highway 19,(Island Highway),Courtenay to Black Creek Bridge and miscellaneous roads			2.28
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-17th Street Courtenay, second crossing		3,166.97	
-Canadian Highway 4, west boundary Lot 9 to Alberni Junction (see also Alberni)		1,668.50	
-Coleman Road-Lazo Road		620.99	
-Courtenay Arterial, curb and gutter Embleton Road to 21st Street		1,267.14	
-Island Highway from Parksville, curb and gutter		34,154.07	
-Minor road surveys		41,150.26	
-Vancouver Island Highway-Parksville Bypass		360.00	82,387.93
Traffic Branch:			
Project E-0715 - Route 19,Lantzville to Craig's Crossing, signal and lighting installations (see also Nanaimo)		68,144.44	
E-0726 - Courtenay Bypass from Route 19 at 17th Street to Route 19 at Headquarters Road, Court-Courtenay, signal and lighting installation		3,776.00	
E-1610 - Route 19 at Pym Road Parksville, signal and lighting installation		31,611.68	103,532.12

COMOX ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-17th Street Crossing, Cliffe Avenue to Dingwall Road		42,043.82	
-Condensory Road Extension		33.35	
-Enns Road 292		35,000.00	
-Gravel pits		469,777.97	
-Headquarters Road 10		720.00	
-Highway 19-Courtenay north		103,167.00	
-Huntley Road Highway 19 intersection		7,857.72	
-Island Highway, Lantzville to Craig's Crossing		1,482.60	
-Parksville, curb and gutter, Martindale Road to Dogwood Street		162.80	
-Ryan Road 28		245.00	660,490.26
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1740 - Village of Invermere, Municipal restructure grant			30,000.00
Secondary Highway Construction and Improvements			
Project V-0617 -243B, Comox Avenue and Anderton Road, Town of Comox		5,015.00	
V-1635 - 223B, Cumberland Road City of Courtenay		25,251.00	
V-1668 - 266B, Courtenay-Cumberland (4th St. and Cumberland Road),Village of Cumberland		7,166.25	37,432.25
Total, Comox Electoral District			$15,020,601.03

COQUITLAM-MOODY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			284,340.83
Snow removal			20,245.92
Bridge maintenance			53,108.90
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments,			
-Ioco Road, patching and drainage improvements	54,488.45		
-miscellaneous	7,787.95	62,276.40	
C-0122 - Minor Betterments, miscellaneous		10,000.00	72,276.40
Construction Branch:			
Project C-1148 - Colony Farm Overhead roadworks		831,733.38	
C-3402 - Lougheed Highway North Road to Cape Horn, reconstruction approximately 4 miles		30,404.04	
C-4092 - Cape Horn-Pitt River Highway, Mary Hill bypass		74,121.49	936,258.91

COQUITLAM-MOODY ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office			
Legal Surveys - Project L-0099 -Cape Horn-Pitt River Highway W.Bdy.D.L.22 to E.Bdy.D.L.340, Gpl N.W.D.			11,300.54
Bridges and Ferries:			
Bridge Branch:			
Project B-0870 - Pitt River Bridge, upstream structure, Lougheed Highway (see also Dewdney)		89.65	
B-1374 - Colony Farm Overhead Cape Horn to Pitt River Highway		1,654,794.09	1,654,883.74
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnet Highway from Sperling Avenue to Clarke Road (see also Burnaby North)		193.76	
-Ioco Overhead to Sharpe Road		688.00	
-Minor road surveys		6,770.04	7,651.80
Traffic Branch:			
Project E-1305 - Route 7A at Lansdowne Street,Coquitlam,signal installation and lighting revision		21,272.00	
E-1570 - Route 7 at Colony Farm O/H,Coquitlam, lighting installation		82,570.75	
E-1652 - Pitt River Road at Red Bridge,Coquitlam,temporary bridge signal		13,598.95	117,441.70
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Lougheed Highway,Essondale to Barnet Highway		2,731.00	
-Mary Hill bypass		169,396.20	172,127.20
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1294 - 288B, Pitt River, McLean and Kingsway Avenue, City of Port Coquitlam		140,130.00	
V-1302 - 265B, Knowle Drive, City of Port Moody		61,462.01	201,592.01
Total, Coquitlam-Moody Electoral District			$3,531,227.95

COWICHAN-MALAHAT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,394,736.90
Snow removal			108,088.98
Bridge maintenance			168,295.13
Ferry maintenance and operation- Thetis Island Ferry			1,321,218.86

COWICHAN-MALAHAT ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		3,703.00	
C-0152 - Minor Betterments, miscellaneous		153,822.34	
C-0902 - Riverbottom Road, Lake Cowichan,reconstruct		59,902.68	
C-1535 - Cobble Hill,Lovers' Lane, reconstruct and pave		29,701.94	
C-1644 - Koksilah Road,Duncan, reconstruct		60,000.00	
N-0395 - Guardrail installation		18,891.50	
W-0365 - Fencing Schedule 2 Highways		6,624.00	332,645.46
Construction Branch:			
Project C-3711 - Trans Canada Highway 1, Bench Road to Duncan(Victoria-Duncan subdivision), grading Mile 33.42 to Mile 35.87			28,643.86
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Mountain Road E.Bdy.Sec.2 Range 5 Quamichan District to S.Bdy.Lot 25 Helmcken District			9,571.50
Bridges and Ferries:			
Day Labour			
Project B-1413 - Bonsall Bridge,purchase and install E-Z bridge		144,500.00	
B-1419 - Nagle Bridge,boxbeams and abutments		74,100.00	218,600.00
Bridge Branch:			
Project B-0751 - Meade Creek Bridge, on Youbou Road,reconstruction and reseating		9,911.22	
B-0976 - Cowichan River Bridge, Chemainus River Bridge, Trans Canada Highway 1		4,005.13	13,916.35
Paving Branch:			
Project S-0744 - Highway 18, Junction Trans Canada Highway to Meade Creek Bridge (30.9km)		1,749.82	
S-1602 - Highway 1,Fuller Lake and south Shawnigan Lake,intermittent patch paving		109,035.07	110,784.89
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Crofton access Trans Canada at Mt. Sicker		8,431.00	
-Island Highway from Chemainus to Ladysmith		50,558.01	
-Minor road surveys		32,998.27	
-Trans Canada Highway 1 Malahat		81,316.29	173,303.57
Highway Safety Branch:			
Project C-0202 - Roadside Hazard elimination, Chemainus telephone poles, relocation			1,250.00

COWICHAN-MALAHAT ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Cowichan Lake Road		600.00	
-LaFortune and Kilipi Roads		782.50	
-Polkey Road		4,817.00	
-Trans Canada Highway, Bench Road, Duncan		1.00	6,200.50
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0693 - 269B, Oak Street, District of North Cowichan			15,000.00
Total, Cowichan-Malahat Electoral District			$4,902,256.00

DELTA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			824,451.17
Snow removal			30,341.59
Bridge maintenance			62,982.30
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		34,100.56	
C-0802 - Scott Road at 70th Avenue culvert replacement (see also Surrey)		25,000.00	
W-0793 - Fencing Schedule 2 Highways		11,048.00	70,148.56
Construction Branch:			
Project C-0672 - Fraser River Crossing (Annacis Island), relocation of B.C.H.P.A. gas line, south side, Highway 99-Queensborough Bridge		64,620.04	
C-1095 - Fraser River Crossing (Annacis Island),construction of test fill		23,688.42	
C-1122 - Fraser River Crossing (Annacis Island),approaches construct engineering access road		105,612.99	
C-1150 - Fraser River Crossing (Annacis Island), Highway 99-Queensborough Bridge, supply of dredged material		663,545.17	
C-1548 - Fraser River Crossing (Annacis Island),placing sand, Delta Cedar products		33,947.23	
C-1583 - Fraser River Crossing (Annacis Island), test fill		61,153.09	
C-1584 - Fraser River Crossing (Annacis Island), Nordel interchange, purchase of hog fuel		813,477.46	

DELTA ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch - continued:			
Project C-1585 - Fraser River Crossing (Annacis Island), River Road area, grading		150,249.07	
C-1589 - Fraser River Crossing (Annacis Island), miscellaneous road works, sand on Swenson property to meet right-of-way agreement		154,619.80	
C-1593 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pier protection works and dredging (see also New Westminster)		55,100.07	
C-1651 - Fraser River Crossing (Annacis Island), L line, Highway 99-Queensborough Sta.16+00 to Sta.169+00, road grading-sand surcharge		204,424.68	
C-1671 - Fraser River Crossing (Annacis Island), south Annacis Bridge approach, St. Mungo's Cannery demolition		195,481.03	
C-3325 - George Massey Tunnel Highway 99, installation of sprinkler system (see also Richmond)		137,660.06	2,663,579.11
Bridges and Ferries:			
Bridge Branch:			
Project B-0895 - Fraser River Crossing (Annacis Island), main span (see also New Westminster)		1,950,860.22	
B-1404 - Fraser River Crossing (Annacis Island), design of miscellaneous minor structures (see also New Westminster)		45,685.68	
B-1666 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pile driving and load tests (see also New Westminster and Richmond)		76,508.85	2,073,054.75
Paving Branch:			
Project S-1448 - Highway 10, Delta, Ladner Trunk Road from Chillukthan Slough to Highway 17, storm drainage paving, curb and gutter and lighting		36,500.00	
S-1738 - Lower mainland miscellaneous roads, King George Hwy., 108th Street to Fraser Highway, King George Hwy. 62nd Avenue to Highway 10, Scott Road 70th Avenue to Hwy. 10, Highway 17 56th St. to Tsawwassen Ferry Terminal, Knight St., south end Knight Street Bridge to Westminster Highway (see also Richmond and Surrey)		987.98	37,487.98

DELTA ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Control line aerial mapping of Mathews Road interchange on Highway 99	183.08		
-Scott Road from Highway 1 to Highway 10 (see also Surrey)	1,532.82		
Scott Road, Old Yale Road to 96th Avenue (see also Surrey)	5,834.70	7,550.60	
L-0558 - Fraser River Crossing (Annacis Island), south side of Fraser River to Highway 99		711,561.31	
L-1359 - Fraser River Crossing (Annacis Island), archaeological explorations, St. Mungo's Cannery		9,549.87	728,661.78
Traffic Branch:			
Project E-0576 - 56th Street at 6th Ave., Delta, signal revision			18,558.15
Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island), Project Study, preliminary design planning (see also New Westminster)			111,958.67
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), geotechnical investigations (see also Richmond and New Westminster)			233,246.52
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, frangible lamp standard bases			9,876.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Chillukthan Slough to Hwy.17	285.00		
-Fraser River Crossing (Annacis Island)	487,364.12		
-Tsawwassen-Ladner Highway	9,000.00	496,649.12	
P-0599 - Fraser River Crossing (Annacis Island) right-of-way and property purchases		6,049,813.22	6,546,462.34
BILL 7, SPECIAL FUNDS ACT, 1980 (Fraser River Crossing Fund)			
Bridges:			
Project B-0895 - Fraser River Crossing (Annacis Island), main span (see also New Westminster)			20,188.82
Total, Delta Electoral District			$13,430,997.74

DEWDNEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			975,282.79
Snow removal			192,242.54
Bridge maintenance			71,184.98
Ferry maintenance and operation- Albion-Fort Langley Ferry (see also Langley)			916,643.77
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		7,787.95	
C-0120 - Minor Betterments, miscellaneous		163,871.16	
C-1434 - Minor Betterments, miscellaneous		20,200.00	
N-0370 - Guardrail installation		9,100.00	200,959.11
Construction Branch:			
Project C-1690 - Haney to Albion-Lougheed Highway, widening including the Kanaka Creek Bridge		1,355.41	
C-1799 - Highway 11, Mission Overhead Bridge approaches, concrete columns		4,348.51	
C-4093 - Haney Business Bypass, Maple Ridge, construction(3.0km)		161,121.93	
C-4291 - Abbotsford-Mission Highway 11, Mission roadworks, northwest approach (1.35km)		1,601.66	168,427.51
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Abbotsford-Mission Highway 9 through parts D.L.'s 410 and 412 Gp1 and D.L.165 SP3 N.W.D., Mission Bridge, north approach		5,560.54	
-Lougheed Highway through parts D.L.'s 275 and 405 Gp1 N.W.D. and maintenance easement in Lot 3 Plan 8827		4,434.39	9,994.93
Bridges and Ferries:			
Day Labour			
Project B-1412 - Sturgeon Slough Bridge, replace piling		49,584.07	
B-1414 - Dewdney Bridge,replace pile caps		99,999.97	149,584.04
Bridge Branch:			
Project B-0870 - Pitt River Bridge upstream structure, Lougheed Highway (see also Coquitlam-Moody)		89.65	
B-1375 - Pitt River Bridge 58, rehabilitation of superstructure, Lougheed Highway		557.02	
B-1709 - Mission Overhead over C.P.Railway,Abbotsford-Mission Highway 11		29,895.67	30,542.34

DEWDNEY ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-1749 - Highways 1 and 7 Popkum area roads, Lake Errock to junction of Highway 9 (see also Chilliwack)			25.86
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 11, Abbotsford-Mission mapping(see also Central Fraser Valley)		3,349.82	
-Layout of first curve-north approach to Mission Bridge		33,210.15	
-Lougheed Highway (existing) from Pitt River to Haney		4,198.00	
-Lougheed Highway from Haney to Silver Creek		119,345.35	
-Minor road surveys		18,892.35	
-Miscellaneous "C" Street interchange to Lougheed Mission		30,466.76	
-Silverdale Creek-Hurd Road 6.0km		67,307.91	
-Sylvester Road from Rampart Bridge to Seux Road		1,876.10	278,646.44
Traffic Branch:			
Project E-1141 - Route 11 at Clayburn, Matsqui,Route 7 at Hawkins Pickle Road, Dewdney flashing beacon and lighting installation (see also Central Fraser Valley)		1,880.00	
E-1460 - Route 7 at 207th Street, Maple Ridge,signal and lighting revision		23,808.80	
E-1609 - Route 7 at Dewdney Trunk Road/Kennedy Road Pitt Meadows, signal installation		44,484.90	70,173.70
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Haney-Silverdale		950,162.96	
-Haney Business Bypass		6,382.84	
-Lougheed Highway at Dewdney Trunk Road		250.00	
-Mission Roadworks		228,382.48	1,185,178.28
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0719 - 79B, McNeil Road, District of Pitt Meadows		97,854.00	
V-0731 - 253B, Dewdney Trunk Road and 224th Street, District of Maple Ridge		146,500.00	
V-0732 - 254B, 232nd Street and Fern Crescent,District of Maple Ridge		12,500.00	
V-0737 - 283B, Grand Street, District of Mission, Seventh Avenue and Cedar Valley Street		121,375.00	378,229.00
Total, Dewdney Electoral District			$4,627,115.29

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,526,426.77
Snow removal			147,168.00
Bridge maintenance			198,857.79
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		3,703.00	
C-0153 - Minor Betterments, miscellaneous		182,251.27	
C-0912 - Route 1, Spencer Road intersection, extend left turn slot		53,182.25	
C-1539 - West Coast Road,prepare to pave and gravel shoulders		9,749.25	
C-1540 - Millstream Road,Edwards Bridge, construction of new bridge approaches		20,000.00	268,885.77
Bridges and Ferries:			
Day Labour			
Project B-1423 - Sombrio Bridge,install Bailey		53,240.01	
B-1426 - Kirby Bridge,purchase stringer		1,529.50	
B-1427 - Edwards Bridge,boxbeams and deck		22,277.40	
B-1428 - Craigflower Bridge, replace sway bracing		7,349.00	
B-1429 - Roche Cove Bridge, replace piling		4,151.00	
B-1430 - Phillips Bridge, deck concrete		5,785.60	
B-1431 - Jacob, Rosemond, Clinch Bridges, sealcoat		11,786.00	
B-1655 - Pete Wolf Bridge, install acrow,construct and pave approaches		48,446.78	154,565.29
Paving Branch:			
Project S-1567 - Vancouver Island, West Coast Road, Port Renfrew area			299,992.02
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Humpback Road,Highway 1 to Highway 14		850.83	
-Meaford-Latoria,Kelley Connex		8,998.15	
-Minor road surveys		14,849.96	
-Sooke Road (4 lane passing)		96,395.86	
-Trans Canada Highway and Millstream		8,725.00	
-West Coast Highway 13		107,167.49	236,987.29
Traffic Branch:			
Project E-1164 - Route 14(Sooke Road) at Jacklin Road,Langford area, signal and lighting installation		22,721.40	
E-1636 - Route 14 at Metchosin Road, Colwood area, signal installation and lighting revision		22,860.00	45,581.40

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT - continued

	$	$	$
Highway Safety Branch:			
Project C-0204 - School Route improvements, Highway 1A, Admirals to Stormont Road, improve footpath/sidewalk, asphalt curb, local widening, shoulder treatment			10,728.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Trans Canada Highway, Harriet Road to Thetis Lake Overhead		1,200.00	
-Trans Canada Highway at Millstream Road		25,000.00	26,200.00
Total, Esquimalt-Port Renfrew Electoral District			$3,915,392.33

KAMLOOPS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			6,353,669.37
Snow removal			1,831,525.18
Bridge maintenance			523,288.86
Ferry maintenance and operation			
Little Fort Ferry		61,196.14	
McLure Ferry		58,627.05	119,823.19
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0123 - Minor Betterments,			
-Barriere area, various roads, widening, culvert installation, machine paving, rock blasting, road pulvi mix	119,815.42		
-Birch Island area, various roads, shoulder widening, guardrail installation, clearing and grubbing	57,421.00		
-Buckhorn Road, road bed construction	51,680.15		
-Kamloops area north, various roads, gravelling, gravel treatment, retaining wall, dust site	70,278.47		
-Kamloops area south, various roads, road bed construction, gravelling, culvert installation, regravel roads	65,056.56		
-Miscellaneous	20,790.45	385,042.05	
C-0145 - Minor Betterments, miscellaneous		36,692.87	
C-0815 - Various roads, Kamloops, reconstruction and pave		84,693.02	
C-1462 - Highway 5, miscellaneous hot mix patching		49,964.00	
C-1561 - Highway 24, improvements		98,983.84	

KAMLOOPS ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
C-1562 - Highway 5, Kamloops Indian Reserve		982,430.84	
C-1563 - Halston Bridge approaches		68,293.39	
C-1615 - Clearwater Town Bridge, construct approaches		98,296.33	
C-1778 - Highway 1, Cherry Creek, extra lanes		159,645.13	
C-1831 - Highway 24,Lemieux Cr., bridge approaches		77,877.90	
C-2514 - Clearwater Valley Road, reconstruction		123,439.03	
D-1553 - Rest area upgrading		10,000.00	
N-0373 - Guardrail installation		33,279.00	
N-0434 - Guardrail installation		13,386.00	
W-0344 - Fencing Schedule 2 Highways		83,238.21	
W-0361 - Fencing Schedule 2 Highways		14,000.00	2,319,261.61
Construction Branch:			
Project C-0790 - Summit Drive Extension, Kamloops		2,001,644.46	
C-0916 - Highway 24,Little Fort-Phinetta Lake section,reconstruction		500.34	
C-1562 - Highway 5, Kamloops Indian Reserve			
-Crushing contract	62,322.01		
-Paving contract	438,495.32	500,817.33	
C-1645 - Halston connection to Highway 5, 2km north of Kamloops, fencing		42,488.06	
C-3948 - Westsyde Road from Westmount to Franklin Road, City of Kamloops		52,074.43	2,597,524.62
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Campbell Creek Road through L.S.10, Section 16,Township 19, Range 16 W6M,K.D.Y.D.		884.25	
-Explanatory Plan to consolidate old road with D.L.3747 K.D.Y.D. Except Plan B-6530 LTO Plan H12757(Auldgirth Road)		636.18	
-Halston Bridge approaches through Kamloops Indian Reserve 1		9,692.00	
-Summit Drive extension reference plan for Lots 1 and 2 Plan 4191 and Lot A Plan 3197 all in D.L. 'F' Group 2 K.D.Y.D.		546.40	
-W.Bdy.,D.L.2034A to E.Bdy.,D.L. 3317, K.D.Y.D.,Little Fort-Cariboo Highway 24		3,724.15	15,482.98
Bridges and Ferries:			
Day Labour			
Project B-1424 - Miscellaneous bridge repairs (repair all seal joints) (see also Prince George South)		7,998.43	
B-1437 - East Red Bridge,redeck and flexbeam, Kamloops		86,226.57	94,225.00
Bridge Branch:			
Project B-0734 - Clearwater Town Bridge, Old North Thompson Highway		818,692.58	
B-1677 - Kamloops Bridge(North Thompson River),on Highway 5 to Brocklehurst		1,368,527.35	2,187,219.93

KAMLOOPS ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, Westsyde Road from Blackpines to McLane Landing, 11.5km		248,759.75	
S-0085 - Miscellaneous Drum Mix Paving, Clearwater Valley Road, 15km		1,068.10	
S-1459 - Highway 5, Douglas Lake Road to Merritt Highway District Boundary 16.1km (see also Yale-Lillooet)		455,912.81	
S-1568 - Trans Canada Highway 1, from junction Merritt Highway 5 to Campbell Creek Bridge(6.9km), asphalt surfacing		294,685.32	1,000,425.98
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Intersection of Highway 1 and Highway 5 at Kamloops		1,440.63	
-Kamloops access from Springhill Drive to Mission Flats		38,060.44	
-Lac Le Jeune - 2775A		89,589.84	
-Little Fort-Lac Des Roches (see also Cariboo)		4,297.25	
-Minor road surveys		15,875.27	
-North Thompson Crossing, Kamloops, photo and mapping leading to location survey		110,499.37	
-North Thompson Highway from Paul Creek to Heffley Creek		19,872.59	
-Trans Canada Highway 1 Cherry Creek to Cornwall Lodge		93,985.31	
-Trans Canada Highway from Valleyview to Campbell Creek		24,203.00	
-Trans Canada Highway, truck lanes in the Savona area		4,466.00	402,289.70
Traffic Branch:			
Project E-1112 - Route 5 at Summit Drive, Kamloops and Route 1 at Gleneden Road/1st Ave. S.W. Salmon Arm, lighting installation (see also Shuswap-Revelstoke)		7,380.86	
E-1551 - Summit Drive extension, Kamloops, lighting and signal installation		187,084.56	194,465.42
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Edith Lake Road 1678		1.00	
-Halston Bridge approaches		324,456.76	
-Josephine Road		600.00	
-Kingston Avenue		1,083,507.65	
-Pork Drive		743.00	
-Pumping Station Road		1,800.00	
-Summit Drive, Kamloops		964,231.12	
-Trans Canada Highway 1, Cherry Creek upgrading		2,686.00	
-Trans Canada Highway-Valleyview Campbell Creek		72,687.73	2,450,713.26
Total, Kamloops Electoral District			$20,089,915.10

KOOTENAY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,161,047.17
Snow removal			1,027,640.80
Bridge maintenance			154,625.94
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0027 - Elk Valley Road 4, shoulder widening		94,479.08	
C-0135 - Minor Betterments, miscellaneous		149,072.01	
C-0136 - Minor Betterments, miscellaneous		168,118.85	
C-0841 - Cranbrook area roads, flushcoat(see also Columbia River)		57,068.95	
C-1123 - Elk Valley Road, Wilson Bridge approaches		84,674.00	
C-1489 - Highway 3,81.3km to 96.2km,shoulder treatment		59,953.92	
C-1490 - Fernie Ski Hill Road, road mix paving		45,000.00	
C-1633 - Corbin Road,gravelling		19,289.00	
C-1647 - Alpine Way, Elkford, intersection improvements		29,996.80	
C-1780 - Highway 3,C.P.R.Hill, strengthen road base prior to paving		20,597.50	
N-0385 - Guardrail installation		7,469.10	
N-0386 - Guardrail installation		47,997.00	
W-0353 - Fencing Schedule 2 Highways		11,979.87	795,696.08
Construction Branch:			
Project C-1312 - Sparwood to Cummings Creek,Elk Valley Road,reconstruction		982,188.31	
C-3720 - Highway 95A and Cranbrook Airport access road, construction Wycliffe-Cranbrook Sta.10+00-Sta.406+00(7.66 miles),Cranbrook Airport access road Sta. 0+00-Sta.81+00(1.58 miles) Total 9.24 miles		6,206.09	988,394.40
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Elk Valley Road 4 S.Bdy.D.L. 7988 to W.Bdy.D.L.7992 K.D.		9,286.03	
-Highway 95A through Lot 27 to W.Bdy.Lot 2045 K.D.		16,737.96	
-Plan of subdivision of part of D.L.2044 K.D. and 17 Mission-Wycliffe Road		659.50	
-St.Marys Lake Road 115 Highway 95A to Mathews Creek		6,709.69	
-Wycliffe-Cranbrook section Highway 95A, 1. N.Bdy.Lot 2967 to E. Bdy.L.2046 K.D.2.Airport access through lots 2045,6198, 2044 and 6436 K.D.		15,777.11	49,170.29

KOOTENAY ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferries:			
Day Labour			
Project B-1502 - Moyie River Curson Bridge, major concrete repairs		36,601.37	
B-1503 - Yahk Slough Bridge, sidewalk and curb repairs		899.30	
B-1504 - Moyie River Yahk Bridge, sidewalk, curb and seat repairs		11,299.26	
B-1507 - Morrisey Bridge, major repairs		6,438.34	
B-1508 - Loop Bridge		19,111.31	
B-1509 - Michel Mouth Bridge		20,997.58	
B-1745 - Moyie Kingsgate Bridge, metallizing		17,389.78	112,736.94
Bridge Branch:			
Project B-1048 - Wardner Bridge at Wardner, closed section of Southern Trans Provincial Highway		34,850.00	
B-1082 - Wilson Bridge, Elk Valley Road		314,402.48	
B-1088 - North Fernie Bridge, Highway 3		20,026.13	
B-1261 - McPhee Bridge over St. Mary River, Highway 95A		5,303.19	
B-1306 - Elkford Spur Overhead and Michel Prairie Bridge, Elk Valley Road		190,729.51	
B-1307 - Sparwood Overhead and Michel Creek Bridge, Elk Valley Road		278,246.84	843,558.15
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, Highway 63, Wardner-Fort Steel 30.0 km			791.77
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cranbrook North Interchange		51,438.19	
-Elk River Road from mile 2.2-3.6 and mile 10.2-12.6		192.00	
-Elk Valley Highway from Elk River to Cummings Street		28,109.20	
-Highway 3 Elko-Morrisey		9,826.31	
-Lazy Lake Road, Wasa,Cranbrook		39,589.45	
-Minor road surveys		21,413.41	
-Perry Creek Road		17,812.49	
-South Fernie		5,682.69	174,063.74
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Boundary Road 86		2,655.00	
-Elk Valley Road, (Sparwood to Elk River Crossing and Cummings Creek Bridge approaches)		163,804.43	
-Fort Steele-Bull River Road		3,650.00	
-Gravel Pits		1,400.00	
-Kelly Road 84		1.00	
-Lake Street 686		7,972.00	
-Langs Road 92		2,900.20	
-Lapoint Road 190		5,756.25	
-Martha Road 170		1.00	
-Savarie Subdivision		617,479.00	
-Southern Trans Provincial Highway		5,904.36	
-Southview Road 91		512.40	
-Vidamour Road 520		401.29	812,436.93
Total, Kootenay Electoral District			$7,120,162.21

LANGLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			568,025.10
Snow removal			51,637.42
Bridge maintenance			34,408.40
Ferry maintenance and operation- Albion-Fort Langley Ferry (see also Dewdney)			916,643.78
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		49,174.25	
N-0370 - Guardrail installation		9,100.00	
W-0793 - Fencing Schedule 2 Highways		10,362.50	68,636.75
Paving Branch:			
Project S-1458 - Fraser Highway 1A and 200th Street, storm sewer, curb and gutter and paving (1.02 miles)			5,250.00
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aldergrove 264th - 270th		932.00	
-County interchange to Blaine		2,090.00	
-Highway 10-Cloverdale east truck lane		12,427.09	
-Highway 1A from 200th Street to 202nd Street		13,806.10	
-Minor road surveys		3,649.00	
-Miscellaneous-Langley from Fraser Highway at 208th Street to Glover Road		130.96	33,035.15
Traffic Branch:			
Project E-1672 - Route 1A at 272nd St., (Jackman Road),Aldergrove, signal replacement and lighting installation			27,167.87
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, shoulder work on Highway 1A at Hartnell Hill and 168th Street			19,079.74
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113 -Langley Bypass			32,824.77
Municipal Programs Branch			
Amalgamation Grants:			
Project O-1685 - Township of Langley, replacement of Salmon River Bridge on access to Trinity Western College			50,000.00
Total, Langley Electoral District			$1,806,708.98

MACKENZIE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,912,387.52
Snow removal			134,167.32
Bridge maintenance			155,967.78
Ferry maintenance and operation-			
Comox-Powell River Ferry (see also Comox)		1,945,302.36	
Texada Island Ferry		1,860,716.45	3,806,018.81
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0118 - Minor Betterments, miscellaneous		130,246.81	
C-0146 - Minor Betterments, -Miscellaneous	45,900.00		
-Bella Coola Wharf to Clayton Falls, road construction	51,106.80	97,006.80	
C-0800 - Highway 101, Madeira Park intersection, reconstruction		84,750.87	
C-1434 - Minor Betterments, miscellaneous		30,000.00	
C-1480 - Lower Road, Gibsons, pave shoulders		25,000.00	
C-1642 - Savary Island Roads, Hauling and placing crushed gravel		15,000.00	
N-0369 - Guardrail installation		36,400.00	418,404.48
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Hollingsworth Road through part of D.L.1500,Group 1, N.W.D.		2,420.72	
-Subdivision of closed road within D.L.1401 Gp.1 N.W.D.,Langdale		1,393.68	3,814.40
Bridges and Ferries:			
Day Labour			
Project B-1411 - Chaster Creek Bridge, replace with boxbeam		93,000.00	
B-1425 - Hagensborg Bridge,Bella Coola River, major repair		120,801.57	
B-1680 - Stockwell Bridge,purchase of pre-cast concrete box culvert		25,000.00	238,801.57
Ferries:			
Project H-1125 - Princess of Vancouver, conversion to roll-on, roll-off vehicle ferry (see also Comox)			4,192,859.68
Ferry Landings:			
Project B-1139 - Westview Ferry Terminal, emergency repairs to wingwall and dolphin			546,274.96
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Extension of Highway 20 west of Bella Coola		27,084.80	
-Highway 101 from Langdale Ferry to Highway 101 at Park Road Sechelt Bypass-Airport to Trout Lake		45,822.00	
-Highway 101 from Secret Cove to Madeira Park		46,932.26	
-Minor road surveys		1,807.00	121,646.06

MACKENZIE ELECTORAL DISTRICT - continued

	$	$	$
Highway Safety Branch:			
Project C-0204 - School Route improvements, Zillinsky Road, Powell River, improve existing gravel shoulder to a minimum 4 feet for pedestrian walkway			14,898.57
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Highway 101 and Lower Road		7,780.00	
-Klan Creek Easement		11,665.00	
-North Road		16,097.60	
-Shark Lane at Madeira Park		4,292.00	
-Shearwater Road 852		238.00	
-Sunshine Coast Highway, Sechelt to Madeira Park		126.00	40,198.60
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1174 - 143B, Duncan Street, District of Powell River			25,736.92
Total, Mackenzie Electoral District			$11,611,176.67

MAILLARDVILLE-COQUITLAM ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			165,280.74
Snow removal			10,[illegible]5.67
Bridge maintenance			20,445.50
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour:			
Project C-0119 - Minor Betterments, miscellaneous		37,317.45	
W-0793 - Fencing Schedule 2 Highways		12,296.07	49,613.52
Paving Branch:			
Project S-1569 - Trans Canada Highway 1, North Vancouver and Coquitlam area, paving (6.85 km) (see also North Vancouver-Capilano and North Vancouver-Seymour)		208,138.90	
S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge (see also Burnaby-Edmonds and North Vancouver-Seymour)		423.37	208,562.27
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Mary Hill Bypass			85,289.54

MAILLARDVILLE-COQUITLAM ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113 -Lougheed Highway, North Road to Cape Horne interchange			94,088.86
Total, Maillardville-Coquitlam Electoral District			$633,376.10

NANAIMO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,740,874.39
Snow removal			103,872.23
Bridge maintenance			139,623.56
Ferry maintenance and operation-			
Gabriola Island Ferry		3,157,892.38	
Newcastle Island Ferry subsidy		5,416.00	3,163,308.38
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		5,499.00	
C-0152 - Minor Betterments, miscellaneous		154,464.36	
C-1452 - Minor Betterments, miscellaneous		55,176.93	
C-1536 - Berry Point Road, Gabriola Island, reconstruct and pave		40,281.90	
D-0012 - Rest area upgrading		49,068.04	
N-0395 - Guardrail installation		4,855.00	
W-0365 - Fencing Schedule 2 Highways		13,370.93	322,716.16
Construction Branch			
Project C-2901 - Highway 19, Lantzville to Craig's Crossing, reconstruction (8.87 miles)			4,249,68o.30
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-North Road through lot 4 Plan 32840, Section 20, Gabriola Is. Nanaimo District		3,460.09	
-Reference Plan of Parcel C (DD2340N)Sec.5 Rge.5 and Part North 15 acres of east 20 acres Sec.4 Rge.5, Yellow Point Road		448.05	
-Trans Canada Highway through Lots 53 to 57, Lots 59 and 60, Lots 62 and 63 Plan 965A, Lot 2 Plan 6528 and Lot 1 Plan 30719 in D.L.56 Oyster District		1,866.60	5,774.74
Roadside Development and Landscape Branch:			
Project D-1557 - Nanoose Bay, new rest area			11,862.70

NANAIMO ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferries:			
Ferries			
Project H-0678 - Gabriola Island Ferry, new passenger and 70 Automobile Ferry			19.25cr.
Paving Branch:			
Project S-1456 - Highway 1 and 19, Esplanade Avenue to Princess Royal Ave. (2.72 km)			474,781.50
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cypress Street to B.C. Ferry Property		26,326.37	
-George Pearson Bridge to Departure Bay Road, mapping for curb and gutter		34,771.14	
-Highway 19, Bowen Road, Norwell and Rock City Road		11,103.86	
-Highway 19, Nanaimo Bypass		23,465.18	
-Island Highway from Ladysmith to Carmichael Road		25,956.73	
-Minor road surveys		24,692.31	
-Nicol Street, four laning		17,296.30	
-Terminal/Wallace Couplet south end Nicol St. to George Pearson Bridge		46,287.61	209,899.50
Traffic Branch:			
Project E-0556 - Route 1-Woodhouse to Campbell St., Nanaimo, lighting installation		9,384.00	
E-0715 - Route 19, Lantzville to Craig's Crossing, signal and lighting installations (see also Comox)		12,025.49	
E-1044 - Route 19, Mary Ellen Drive to Hammond Bay Road, Nanaimo, signal and lighting installation		2,310.00	
E-1632 - Route 19 at Highland Boulevard/McCulloch Road, Nanaimo, lighting installation		15,612.75	39,332.24
Highway Safety Branch:			
Project C-0204 - School Route Improvements, shoulder treatment/fill placement Wilkinson Road for pedestrian walkway			18,678.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Dickinson Road		19,050.00	
-Heber Road		2.00	
-Ladysmith-Carmichael		19,135.00	
-Nanaimo Bypass		252,500.00	
-Nanaimo Ferry Terminal		866,403.00	
-Trans Canada Highway Westdowne Road-Ladysmith		46,086.88	
-Walker Hook Road		2,711.00	
-Yellow Point Road		1.00	1,205,888.88
Total, Nanaimo Electoral District			$13,686,279.33

NELSON-CRESTON ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			6,651,928.74
Snow removal			2,326,393.23
Bridge maintenance			580,980.09
Ferry maintenance and operation-			
Glade Ferry		147,993.80	
Harrop Ferry		196,573.33	
Balfour Dock	19,889.92		
Kootenay Bay Dock	53,756.61		
Kootenay Lake Ferry	1,618,306.46	1,691,952.99	
Sunshine Bay Dry Dock		37,546.12	2,074,066.24
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0031 - Creston area roads, miscellaneous improvements		50,000.00	
C-0131 - Minor Betterments,			
-Miscellaneous	177,861.01		
-Seal coating Nelson area roads	53,891.00	231,752.01	
C-0134 - Minor Betterments, miscellaneous		200,717.97	
C-0139 - Minor Betterments, miscellaneous		176,801.56	
C-0503 - Winlaw area roads, widen and improve		19,937.40	
C-0504 -Salmo area roads, widen and improve		22,352.35	
C-0852 - Creston and Crawford Bay area roads, construction, gravelling		25,000.00	
C-0853 - Creston-Erickson Road and Short Road, shouldering, drainage		75,000.00	
C-0855 - Abbey Road, new construction		50,000.00	
C-0857 - Lakeview Road, clearing, grubbing and drainage		20,000.00	
C-1450 - Minor Betterments, miscellaneous		13,396.27	
C-1483 - Bonnington Road, reconstruction		69,999.97	
C-1641 - Kane Creek, install multi-plate culvert		89,960.72	
C-1654 - Boulder Creek Bridge approaches		35,000.00	
C-1783 - Riondel Road,rock work		15,000.00	
D-1554 - Rest area upgrading		47,336.07	
N-0381 - Guardrail installation		45,170.28	
N-0384 - Guardrail installation		50,127.67	
N-0389 - Guardrail installation		48,000.00	1,285,552.27
Construction Branch:			
Project C-2317 - Southern Trans Provincial Highway 3, South Fork-Salmo,(9.54 miles) reconstruction			10,186.64
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Arrow Creek West Road 7 in Block E Plan 1773, S.L.9 D.L.4592 K.D.		1,318.25	
-Creston-Erickson Road 67 in D.L. 5617 Kootenay District		2,338.65	

NELSON-CRESTON ELECTORAL DISTRICT - continued

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Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Mather Road in Sublots 4 and 66 D.L.4595 Kootenay District, Creston		811.65	
-Nakusp-Galena Bay Highway 23-S. Bdy.D.L.12851 to S.Bdy. D.L.10286		30,595.30	
-Nakusp-Galena Bay Highway 23 through D.L.'s 10385 and 10386,K.D.		6,028.22	41,092.07
Bridges and Ferries:			
Day Labour			
Project B-1497 - Pass Creek Bridge, reconstruct		17,221.60	
B-1498 - Airy Creek Bridge		23,705.40	
B-1499 - Cedar Creek Bridge		25,199.99	
B-1505 - Goldhill Bridge,replace main span		22,764.18	
B-1512 - Black Bridge		10,268.44	
B-1663 - Gerrard Bridge, remove and replace with acrow bridge		126,441.34	
B-1756 - Boulder Creek Bridge, remove old structure and clean up		4,900.00	
B-1757 - Russel Creek Bridge, replace with culvert and fill		10,400.00	
B-1758 - Maryland gravel pit access bridge, log, prepare and prefab bridge members		8,600.00	
B-1759 - Summit Creek Bridge, metalize bridge railing		9,000.00	258,500.95
Bridge Branch:			
Project B-0939 - Taghum Bridge, Southern Trans Provincial Highway 3A, deck			4,782.00
Ferries:			
Project H-1587 - Shelter Bay Camp,replace generators			35,448.52
Ferry Landings:			
Project B-1390 - Balfour Ferry Terminal, marine structure replacement			71,805.64
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-Highway 23, 26.5km to 36.5km Halfway River towards Galena Bay	113,834.05		
-Highway 23,Silverton to Slocan City, Highway 31A,Kaslo to Coffee Creek	170,421.32		
-Highway 23,Silverton to Slocan City, surface treatment, graded seal	211,525.14		
-Highway 3,Blase Creek,Creston area 44.2km to 64.97km	230,131.50		
-Miscellaneous roads-Creston area 35.0km	447.87	726,359.88	
S-0085 - Miscellaneous drum-mix paving,			
-6 Silverton to 12 Mile Creek 19km	1,153.52		
-Creston area miscellaneous 24km	750.71	1,904.23	
S-1600 - Highway 3,Creston-Salmo Summit,intermittent patch paving		117,055.62	845,319.73

NELSON-CRESTON ELECTORAL DISTRICT - continued

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Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Creston Bypass revisions		546.71	
-Highway 31 relocation and Davis Creek at Lardeau		1,455.00	
-Highway 31, Gerrard to west side of Trout Lake		8,053.46	
-Highway 31-Lardeau Bluffs		535.78	
-Highway 3A, shoreacres intersection west of Nelson		4,042.65	
-Highway 6, Vernon-Slocan		5,591.00	
-Minor road surveys		150,585.23	
-Nelson waterfront road from Vernon Street to Elwyn Street		659.00	
-Nelson-Creston Highway from Nelson to Balfour		2,457.11	173,925.94
Traffic Branch:			
Project E-1114 - Route 3A at Vernon Street /Ward Street, signal and lighting revision		10,258.00	
E-1634 - Route 3 at 10th Avenue/ Cook Street, Creston, signal revision		19,804.46	30,062.46
Highway Safety Branch:			
Project C-0203 - Highway Safety Measures, intersection improvements, Highway 3A at Granite Road, island and flashers		3,993.72	
C-0204 - School Route improvements,			
-Highway 3A, shouldering (stage 2) from Nelson to mile six on North Shore	28,429.96		
-Wynndel area from Junction of Highway 3 and 3A north to Wynndel, shouldering	19,991.47	48,421.43	52,415.15
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Ainsworth Townsite		32.69	
-Cook Street Bypass		16,695.00	
-Creston Bypass		58,546.72	
-Creston-Erickson Road 67		21,103.16	
-Curtis Road 157		1,149.40	
-Forty-nine Creek Road 109		1.00	
-Hagey Road 156		1,647.00	
-Highway 6		510.46	
-Indian Point Road 489		4,364.57	
-Jones Road 169		11,925.67	
-Kaslo Arterial		28,601.00	
-Kay Road 286		4,522.00	
-Lindsay Road		840.00	
-Nakusp-Galena Bay Highway 23		5,489.44	
-Nelson Arterial Highway		273.97	
-Packing Shed Road 374		1,116.00	
-Peterman Road 263		3,506.40	
-Powell Road 83		3,058.45	
-Robson Road 287		484.00	
-Sproule Creek Road 320		1,910.00	
-Sundry Expenses		306.80	
-Thompson Road 333		6,746.17	
-Wills Road 481		2,500.00	175,329.90
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0925 - Town of Creston			60,276.74

NELSON-CRESTON ELECTORAL DISTRICT - continued

	$	$	$
Secondary Highway Construction and Improvements			
Project V-0706 - 275B, Creston-Erickson Road, 17th and 16th Avenue, Town of Creston			6,739.68
Total, Nelson-Creston Electoral District			$14,684,805.99

NEW WESTMINSTER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			89,322.80
Snow removal			1,473.42
Bridge maintenance			17,104.46
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1121 - Marine Way, Byrne Road to north end of Queensborough Bridge, grade construction (see also Burnaby-Edmonds)		546,933.77	
C-1304 - Fraser River Crossing (Annacis Island), vibro replacement compaction of foundation of the Annacis channel moveable bridge, south approach and abutment area		1,183,358.42	
C-1593 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pier protection works and dredging (see also Delta)		13,775.01	1,744,067.20
Bridges and Ferries:			
Bridge Branch:			
Project B-0894 - Fraser River Crossing (Annacis Island), moveable bridge		840,243.85	
B-0895 - Fraser River Crossing (Annacis Island), main span (see also Delta)		1,950,860.19	
B-1404 - Fraser River Crossing (Annacis Island), design of miscellaneous minor structures (see also Delta)		45,685.67	
B-1420 - Pattullo Bridge, south approach falsework for bearing replacement. Contract 1, supply and fabrication of steel falsework. Contract 2, supply of hydraulic jacking system. Contract 3, erection of falsework		630,527.51	
B-1666 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pile driving and load tests (see also Delta and Richmond)		74,258.59	3,541,575.81

NEW WESTMINSTER ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-1598 - Pattullo Bridge deck, patch paving (see also Surrey)			8,875.63
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Project L-0558 - Fraser River Crossing (Annacis Island),			
-Annacis Crossing of Fraser River		483,618.95	
-Belgrave Way to Carter (Annacis Truck Route)		22,387.60	506,006.55
Traffic Branch:			
Project E-1769 - Fraser River Crossing (Annacis Island),Annacis Island Bridge, lighting installation (see also Surrey)			4,823.03
Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island),project study preliminary design planning			111,958.64
Geotechnical and Materials Engineering Branch:			
Project G-0038 -Fraser River Crossing (Annacis Island), geotechnical investigations (see also Delta and Richmond)			181,413.97
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Sundry expenses			1,360.80
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0994 - Village of Belcarra			76,000.00
Bill 7, SPECIAL FUNDS ACT, 1980 (Fraser River Crossing)			
Bridges:			
Project B-0895 - Fraser River Crossing (Annacis Island), main span (see also Delta)			20,188.82
Total, New Westminster Electoral District			$6,304,171.13

NORTH ISLAND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,812,329.46
Snow removal			309,152.32
Bridge maintenance			164,171.93
Ferry maintenance and operation			
Alert Bay Ferry		1,836,542.06	
Cortes Island Ferry		1,111,592.03	
Quadra Island Ferry		2,123,676.2[illegible]	5,071,810.36

NORTH ISLAND ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		912.00	
C-0155 - Minor Betterments, miscellaneous		176,787.84	
C-1544 - Cluxewe Bridge approaches, construct and pave		246,995.25	
C-1545 - Duncan Bay Road,Campbell River, pave		12,903.82	
N-0398 - Guardrail installation		23,750.68	461,349.59
Construction Branch:			
Project C-4550 - Nimpkish-Zeballos-Fair Harbour-Gold River Road		78,201.68	
C-4551 - Head Bay Forest Road, Gold River to Tahsis		429,477.07	507,678.75
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Bartholomew Road, Cortes Island through part of SE1/4 Sec.10 Sayward District		1,874.40	
-Intersection of Highway 19 and Granville Street,Port Hardy Sec.36 Tp9 Rupert District		518.91	
-Island Highway over part of the bed of Discovery Passage (at Campbell River)		1,436.80	
-Island Highway right-of-way widenings in parts of section RE Township 1, Comox District		1,800.00	
-Statutory right-of-way plan-Green Road through Cape Mudge Indian Reserve 10		1,582.88	7,212.99
Bridges and Ferries:			
Day Labour			
Project B-1020 - Cluxewe Bridge		115,719.31	
B-1433 - Nelson Bridge,replace timber deck		36,938.27	152,657.58
Bridge Branch:			
Project B-1325 - South Maquinna Drive Bridge over Extravagant Creek, Village of Tahsis, replacement			7,744.46
Ferry Landings:			
Project B-1391 - Campbell River Ferry Terminal			77,114.31
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Gold River-Tahsis, traverse existing road between Upana summit & Tlupana Creek		14,481.20	
-Highway 19 (Port McNeill-Port Hardy) Keogh Bridge site plan		249.76	
-Island Highway north of Campbell River		32,228.93	
-Mill Bay-Cowichan Golf Course		9,325.64	
-Minor road surveys		76,346.09	
-Port Hardy curb and gutter		3,731.47	
-Willow Point-Campbell River		1,449.23	137,812.32

NORTH ISLAND ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-1119 - Route 19 at Route 28 and Willow Street, Campbell River, signal and lighting revision			4,198.05
Property Services Branch			
Rights-of-way and Property Purchases			
Project P-0113			
-Alert Bay Ferry Terminal		1,383.80	
-Fontaine Road		1.00	
-Island Highway 19		5,042.00	
-Island Highway 19 (Cluxewe River) Bridge approaches		288.00	
-Island Highway, Eve River to Tsitika River		1,004.71	7,719.51
Total, North Island Electoral District			$9,720,951.63

NORTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,659,689.04
Snow removal			1,654,615.00
Bridge maintenance			322,935.63
Ferry maintenance and operation- Fort Nelson Hover Ferry			366,551.96
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0143 - Minor Betterments, miscellaneous		442,542.04	
C-0872 - Route 29, Deep Creek, realignment		249,076.49	
C-0874 - Miscellaneous school bus and farm roads, Fort St.John, reconstruction and gravel		170,785.60	
C-0875 - Farm access and assistance		48,538.27	
C-1090 - Rose Prairie-Montney, prepare for paving		480,172.16	
C-1772 - Fort St.John District, stockpiling gravel		199,645.77	
C-4484 - Liard Highway, construction north of Fort Nelson River		859,754.55	
N-0432 - Guardrail installation		53,627.89	
W-0359 - Fencing Schedule 2 Highways		19,001.00	2,523,143.77
Construction Branch:			
Project C-4484 - Liard Highway, construction north of Fort Nelson River			47,080.92

NORTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099 -			
-Alaska Highway 364km Post to 388km Post Adsett Creek to Parker Creek		8,765.58	
-Farrell Creek Community pasture road 115, Highway 29 to N.Bdy., Township 82 Range 25 W6M P.R.D.		13,987.41	
-Heritage Highway 52 from N.Bdy. Sec.28/29 to S.Bdy.Sec.5 Tp5 South of Peace River Block		15,752.24	
-Highway in Part of east half Sec. 23 Township 25 Peace River District(Moore Sandstone Pit)		95.83	
-Liard Highway-Stanolind Creek to 1.4km south of Fort Nelson River		5,858.90	
-Road 504 through Block 1 D.L.1535 Plan 26999 Peace River District		1,044.83	
-Statutory right-of-way for highway Alaska Highway-Mile 103 to Mile 114		11,808.67	57,333.46
Bridges and Ferries:			
Day Labour			
Project B-1422 - Cust Bridge, replace with multiplate			66,506.95
Bridge Branch:			
Project B-0286 - Petitot River Bridge, Fort Nelson to Fort Simpson Highway			39,438.57
Ferries:			
Project H-1100 - Fort Nelson River Crossing, Hover Ferry			41,961.31
Paving Branch:			
Project S-1049 - Fort St.John miscellaneous roads, paving		1,933,385.51	
S-1120 - Crushed granular material in stockpile, Rose Prairie area		64,748.21	
S-1750 - Alaska Highway 97, North Kiskatinaw to Road 269, Asphalt surfacing(see also South Peace River)		164.51	1,998,298.23
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Fort Nelson-Fort Simpson Highway from Alaska Highway to Northwest Territories Boundary		28,848.86	
-Fort St.John, Alaska Highway 88th Street to McKenzie Avenue		126.00	
-Highway 29, Halfway River to Cache Creek		372.48	
-Highway 29, Hudson Hope to Farrell Creek		51.14	
-Minor road surveys		6,402.46	35,800.94
Traffic Branch:			
Project E-1175 - Route 97 at Centre Avenue (100th Avenue)Fort St.John, signal installation and lighting revision			38,562.30

NORTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-232 C-Johnson Road		10,502.69	
-Road 205		2,000.00	
-Road 221		2.00	
-Road 255		5,000.00	17,504.69
Total, North Peace River Electoral District			$10,869,422.77

NORTH VANCOUVER-CAPILANO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			253,527.75
Snow removal			31,374.35
Bridge maintenance			319,561.15
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments, miscellaneous		37,276.11	
C-0122 - Minor Betterments, miscellaneous		17,061.16	54,337.27
Bridges and Ferries:			
Day Labour			
Project B-1109 - McKay Bridge,(Lower Levels Road, Municipality of North Vancouver), construct 4 lane bridge			137,000.00
Bridge Branch:			
Project B-1172 - Lion's Gate Bridge,major repairs to North Cable bent		7,852.99	
B-1774 - Lion's Gate Bridge,damage repairs (see also Vancouver Centre)		30,020.44	37,873.43
Paving Branch:			
Project S-1569 - Trans Canada Highway 1, North Vancouver and Coquitlam area, paving (6.85km)(see also Maillardville-Coquitlam and North Vancouver-Seymour)			94,608.61
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Garibaldi Access, Vancouver to Whistler Mountain alternates		1,696.80	
-Upper levels control line		27,075.56	28,772.36
Traffic Branch:			
Project E-1664 - Route 1 at Capilano Road interchange,(south intersection), North Vancouver, signal installation and lighting revision			23,582.36

NORTH VANCOUVER-CAPILANO ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113 -Lion's Gate Bridge			87,500.00
Total, North Vancouver-Capilano Electoral District			$1,068,137.28

NORTH VANCOUVER-SEYMOUR ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			568,060.60
Snow removal			67,230.75
Bridge maintenance			40,431.34
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous			12,807.69
Construction Branch:			
Project C-1725 - Fern Street to Mount Seymour parkway, construction			5,134.70
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Mount Seymour Parkway through Seymour Creek Indian Reserve 2			6,435.00
Bridges and Ferries:			
Day Labour			
Project B-1410 - Seymour River Bridge, repair		34,289.77	
B-1649 - Second Narrows Bridge, lighting, hanger and conduit installation		13,000.00	47,289.77
Bridge Branch:			
Project B-1714 - Seymour River Bridge, Mount Seymour Parkway			37,028.53
Paving Branch:			
Project S-1569 - Trans Canada Highway 1, North Vancouver and Coquitlam area, paving (6.85km)(see also Maillardville-Coquitlam and North Vancouver-Capilano)		75,686.87	
S-1754 - Highway 1,Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Maillardville-Coquitlam and Burnaby-Edmonds)		372.05	76,058.92

NORTH VANCOUVER-SEYMOUR ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Mapping and design study, North Shore transportation study, Mountain Highway interchange and Keith Road to Mt. Seymour Connection		41,591.95	
-Minor road surveys		10,467.04	
-Seymour River, North Vancouver		2,411.35	
-Trans Canada Highway, Second Narrows Bridge-Lynn Creek		9,110.40	63,580.74
Traffic Branch:			
Project E-1344 - Main Street at Mountain Highway, North Vancouver, signal and lighting revision			34,088.15
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Fern Street-Mount Seymour Parkway		167,897.20	
-Lynn Creek-Seymour River, Fern Street to Mount Seymour Parkway		158,737.00	326,634.20
Total, North Vancouver-Seymour Electoral District			$1,284,780.39

OAK BAY-GORDON HEAD ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			77,140.02
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1295 - 162B, Cadboro Bay Road, District of Oak Bay			16,644.00
Total, Oak Bay-Gordon Head Electoral District			$93,784.02

OKANAGAN NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,219,763.35
Snow removal			1,163,752.61
Bridge maintenance			260,352.33
Ferry maintenance and operation-			
Arrow Park Ferry		131,826.15	
Needles-Fauquier Ferry		894,194.99	1,026,021.14

OKANAGAN NORTH ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0125 - Minor Betterments,			
-Miscellaneous	126,999.81		
-Vernon, improve area roads, gravel	86,063.03	213,062.84	
C-0130 - Minor Betterments, miscellaneous		29,417.29	
C-0134 - Minor Betterments, miscellaneous		41,373.42	
C-0829 - Miscellaneous roads, Vernon,paving (see also Shuswap-Revelstoke)		74,573.79	
C-1466 - Highway 97, O'Keefe Ranch left turn slot and intersection improvement at 27th St. and 43rd Avenue		104,293.24	
C-1467 - Highway 6, pavement widening at Coldstream and patching east of Lumby		79,985.99	
C-1468 - Creighton Valley Road, reconstruct and pave		14,999.50	
C-1470 - Route 6,Lumby to Shuswap Hill, reconstruction		593,478.55	
C-1471 - Woodslake Bottom and Lodge Roads, reconstruct, gravel and pave		38,003.00	
C-1473 - Highway 97,various left turn slots, construction (see also Okanagan South and Boundary-Similkameen)		12,761.29	
C-1488 - Highway 6, Fauquier Slip, realign and repair		124,565.93	
C-1621 - Winfield area major machine patching		11,171.00	
C-2658 - Westside Road 138, construction and pave		24,500.85	
N-0375 - Guardrail installation		7,875.85	
N-0376 - Guardrail installation		2,662.46	
N-0384 - Guardrail installation		11,063.33	
W-0346 - Fencing Schedule 2 Highways		16,060.26	1,399,848.59
Construction Branch:			
Project C-1309 - Highway 97, Vernon, weigh scale construction		160,302.72	
C-3422 - Okanagan Highway 97, Vernon to Swan Lake Junction, reconstruction		60,876.05	221,178.77
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-North Fork Road 94 in part of NE1/4 Sec.23 Tp57		1,800.00	
-Okanagan Lake Road 102 right-of-way plan through part D.L.6 O.D.Y.D. outlined in red on Plan "B7940"(drainage easement)		825.00	
-Reposting right-of-way of Thompson Road 293 through part of Section 17 Township 57 O.D.Y.D. Lots 25-32 Plan 663		3,000.00	
-Vernon-Slocan Highway 6, Petworth Road to Dure Meadow Road		1,064.80	
-Vernon-Slocan Highway 6, Murphy Road to School Road		14,632.39	
-Vernon-Slocan Highway 6, Dure Meadow Road to Lumby		14,768.90	36,091.09

OKANAGAN NORTH ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferries:			
Day Labour			
Project B-1439 - Ireland Creek Bridge, reconstruct		81,116.46	
B-1449 - Reimch Bridge,reconstruct		14,669.50	95,785.96
Bridge Branch:			
Project B-0039 - Kettle River Bridge, Monashee Highway 6			669.46
Ferries:			
Project H-0771 - Needles Ferry, spare propeller units			56,109.34
Paving Branch:			
Project S-1455 - Highway 97, Swan Lake junction to Schweb's Bridge (18.4km),Asphalt surfacing (see also Shuswap-Revelstoke)		901,019.30	
S-1533 - Highway 6, Hamilton Flats to Creighton Valley Road, East of Lumby 9.3km		851,037.70	1,752,057.00
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 6 in Vernon,27th Street to 32nd Avenue		5,090.91	
-Highway 6, realignment at Burton Slide mi.3.5-4.0		23,096.85	
-Highway 97 to Crosier Road, Swan Lake Junction (see also Shuswap-Revelstoke)		837.50	
-Lumby-East Boundary Lot 2151 (Region Boundary)		700.07	
-Minor road surveys		1,829.46	
-Okanagan Highway 97 (Vaseaux Lake)		6,231.57	
-Okanagan Highway from Oyama to Vernon		264,361.47	
-Okanagan Landing from East Side Road to Bench Road		7,340.13	
-Vernon grid roads		42,157.12	
-Vernon, west entrance to Lumby		1,809.00	
-Westside Road from I.R. 10 to Ceasars Landing		281,741.72	635,195.80
Traffic Branch:			
Project E-1129 -Vernon, various intersections,operation red light		3,966.70	
E-1596 - Route 97 (43rd Ave.) at 29th Street,signal and lighting installation		16,686.00	
E-1640 - (1) Route 97A(George St.) at Cliff Street, Enderby,signal and lighting installation (2) Route 97 at Old Kamloops Road, Vernon, lighting and flashing beacon installation		11,328.00	31,980.70
Highway Safety Branch:			
Project C-0203 - Intersection improvements, Highway 97, right-turn lane, 27th Street at 43rd Avenue, Vernon		19,978.00	
C-0204 - School Route improvements,			
-Paved footpath on Grant Road to O.K. Landing School, Vernon	2,924.96		
-Paved footpath, Pottery Road, Vernon	5,667.11		
-Shoulder widening to Whitevale School, Vernon	9,688.93	18,281.00	38,259.00

OKANAGAN NORTH ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Albers Road 2		1,450.80	
-Commonage Road 30		16,420.00	
-East Skaha Lake Road 31		2,018.00	
-Highway 6-Lumby, Vernon Street		640.00	
-Highway 97-Oyama		385,000.00	
-Lumby-Mabel Lake Road 75		7,560.00	
-Okanagan Highway 97: Vernon-Swan Lake		15,000.00	
-Oyama Road		1,500.00	
-Vernon-Slocan Highway 6		15.00	
-Whitevale Road 139		1,370.00	430,973.80
Total, Okanagan North Electoral District			$10,368,038.94

OKANAGAN SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,515,569.23
Snow removal			629,117.99
Bridge maintenance			98,901.72
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads			
Day Labour			
Project C-0130 - Minor Betterments, miscellaneous		178,673.44	
C-1472 - Glenrosa Road(Route 97-Fenton Road),reconstruction		34,890.35	
C-1473 - Highway 97,various left turn slots, construction (see also Boundary-Similkameen and Okanagan North)		43,504.41	
C-1620 - Kelowna area major machine patching		20,411.00	
C-1622 - Westbank area major machine patching		28,417.88	
C-3805 - Miscellaneous roads Kelowna City, reconstruct and paving		130,000.65	
N-0376 - Guardrail Installation		9,076.58	444,974.31
Construction Branch:			
Project C-1066 - Highway 97, Westbank to Kelowna,			
-Clearing and fencing, contract for the employment of Indians on Tsinstikeptum Reserve 10		4,595.25	
-Grading		5,588,094.98	5,592,690.23

OKANAGAN SOUTH ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office:			
Legal surveys - Project L-0099			
-1. Sexsmith Road through Lot A Plan 1367 NE1/4 Sec.34 Tp26 O.D.Y.D. R/W			
2. Sexsmith Road through Parcel 'A' Plan 1249 Block 20 Sec.34 Tp26 O.D.Y.D.			
3. Stevens Road in Lots 2 and 3 Plan 25688 D.L.'s 505 and 506 O.D.Y.D.			
4. Reynolds Road in Lots 2 and 6 Plan 1249 Block 20 Section 3 Tp23 O.D.Y.D.		1,767.66	
-Glenmore Street Extension, Casorso Road to K.L.O. Road through D.L.'s 135,131,134 and 133 O.D.Y.D.		9,289.52	
-Hollywood Road widening through Parcel A Plan Section 14 Tp26 O.D.Y.D.		534.42	
-Lodge Road through parts of D.L.'s 117 and 118 O.D.Y.D.		4,007.64	
-Okanagan Highway 97, Kelowna-Westbank Section 2 through D.L. 505,506 and 2189(amendment)		489.09	
-Plan of consolidation of lots 22 to 34 inclusive Plan 21746 Sec.14 Tp26 O.D.Y.D.Hollywood Road		1,440.28	
-Plan of statutory right-of-way for drainage easement in Lots 32 and 33 Plan 17329 D.L.581 O.D.Y.D.Sunnyside Road		67.00	
-Reference plan of Statutory right-of-way through Lots 94 and 95 D.L.2599 O.D.Y.D. Plan 27062		688.90	
-Shannon Lake Road in D.L.'s 2600 and 3794 O.D.Y.D.		2,817.19	21,101.70
Bridges and Ferries:			
Day Labour			
Project B-1444 - Kelowna Bridge, pontoon corrosion control		803.00	
B-1446 - Mill Creek Bridge on Postill Lake Road and Bear Creek Bridge, reconstruct		8,867.00	
B-1447 - Mill Creek Bridge on Old Vernon Road, replace deck		9,229.00	18,899.00
Bridge Branch:			
Project B-0688 - Okanagan Lake Bridge, proposed 4 laning		230,603.57	
B-0692 - Okanagan Lake Bridge, Kelowna, replacement of 24 anchor cables, modifications to outer saddles and realignment of pontoons		1,452,276.10	
B-1054 - Mission Creek Bridge, K.L.O.Road,addition of sidewalk		1,166.00	1,684,045.67
Paving Branch:			
Project S-1686 - Highway 97,Summerland to Peachland section, intermittent paving (see also Boundary-Similkameen)			4,888.82

OKANAGAN SOUTH ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys generally - Project L-0101			
-Bartley Road-Shannon Lake Road Connector		15,500.76	
-Greater Kelowna Road Grid system		10,340.00	
-Harvey Avenue (Kelowna)		18,047.40	
-Highway 33 Rutland from Highway 97 to McKenzie Road		31,330.60	
-Highway 97, Kelowna Glenmore St. to Reid's Corner		32,477.49	
-Minor road surveys		1,086.50	
-Westbank and Lakeview Grid Road System		207.35	
-Westbank-Kelowna impact study		5,725.27	114,715.37
Traffic Branch:			
Project E-1036 - Benvoulin Road at K.L.O. Road, Kelowna, signal and lighting installation		3,407.00	
E-1051 - Route 97 at McCurdy Road, Kelowna, signal installation and lighting revision		7,328.50	
E-1107 - Route 97-Boucherie Road to Campbell Road, Westbank-Kelowna signal and lighting installations		106,941.06	
E-1308 - Route 97 at Gellatly Road, Westbank, Route 97 at Westlake Road/Hudson Road, Westbank area, signal and lighting installations		81,683.44	
E-1348 - Springfield Rd. at Burtch Rd., Spall Rd., and Cooper Road, Kelowna, signal and lighting installations		76,768.05	
E-1614 - Route 97 at Banks Road, Kelowna, signal installation and lighting revision		38,623.77	314,751.82
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, guardrail installation on two fatal accident curves 97 36.0km and 1115 38.2km			12,428.40
Property Services Branch			
Rights-of-way and Property Purchases			
Project P-0113			
-Chapin Road		3,000.00	
-Duck Lake I.R. 7		40,961.15	
-Field Road		2,750.00	
-Glenmore Street extension		280.41	
-Glenmore Street upgrading		6,246.51	
-Glenrosa Road		400.00	
-Gravel pits		2.00	
-Harvey Avenue, widening		1,506,109.18	
-Highway 33, Rutland		202,703.34	
-Highway 97 at Westbank Couplet		257,445.00	
-Highway 97, Rosedale Ave., Summerland		2,921.80	
-Hudson Road		3,150.00	
-K.L.O. Road		1,942.00	
-Kelowna-Westbank		163,720.96	
-Lewis Pit access		22,256.00	
-McKinley Road		8,830.00	
-Okanagan Highway 97		78,502.00	
-Princeton Avenue		12,161.00	
-Sexsmith Road		636.00	
-Springfield Road		4,300.00	
-Vernon-Aberdeen Highway 6		15,522.00	
-Westside Road		93,256.12	
-Woodslake Bottom Road		2,000.00	2,429,095.47
Total, Okanagan South Electoral District			$12,881,179.73

OMINECA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,806,912.49
Snow removal			2,126,554.80
Bridge maintenance			379,136.94
Ferry maintenance and operation Francois Lake Ferry			1,402,901.87
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads: Day Labour Project C-0144 - Minor Betterments, miscellaneous		153,055.05	
C-0150 - Minor Betterments, miscellaneous		16,660.90	
C-0151 - Minor Betterments, miscellaneous		221,963.04	
C-0455 - Miscellaneous farm roads, Vanderhoof, improve alignment, ditch and gravel		39,326.13	
C-0553 - New Nechako Bridge, at Vanderhoof, construct approaches		838,569.65	
C-1532 - Topley Subdivision Roads, improve and pave		62,556.53	
N-0393 - Guardrail installation		32,501.65	
N-0433 - Guardrail installation		11,292.00	
W-0360 - Fencing Schedule 2 Highways		24,993.38	
W-0363 - Fencing Schedule 2 Highways		32,657.65	
W-0364 - Fencing Schedule 2 Highways		60,985.25	1,494,561.23
Legal Surveys Office: Legal Surveys - Project L-0099 -Babine Lake Road 200 S.Bdy.D.L. 5342 to N.Bdy.Blk A D.L.2511 R5 C.D.		2,848.24	
-Keefe's Landing Road drainage easement through Lot 3 Plan 5889 District Lot 1682 Range 4 Coast District		1,368.45	
-Kispiox Valley Road 49-S.Bdy. D.L.345 to N.Bdy.D.L.2531 Cassiar District		17,684.20	
-Nechako River Crossing Highway 27 S.Bdy.Sec.10 to N.Bdy.Sec.27 Range 5 Coast District		15,240.00	
-Reposting 107 Jeffrey Road right-of-way in District Lots 1009 and 1010 Range 5 Coast District		1,841.76	
-Stuart Lake Highway 27 through District Lots 1603 and 1635 Range 5, Coast District, Vanderhoof		1,294.00	
-Through part of Canadian National Railway's right-of-way within District Lots 1235 and 1236 and unsurveyed crown land, Cassiar District at Beament		5,264.35	
-Through part of Lot 8 Plan 5380 D.L.1352 Range 5 Coast District, drainage easement 195, Mill Bay Road		106.00	

OMINECA ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Uncha Lake Road through part of D.L.473 Range 4 Coast District		700.00	
-Yellowhead Highway 16 through part of D.L.2621 and SE1/4 D.L. 3552 R5CD		1,231.22	
-Yellowhead Highway 16 through District Lots 5402,6308 and 6309 Range 5 Coast District (Burns Lake curb and gutter)		2,029.00	49,607.22
Bridges and Ferries:			
Day Labour			
Project B-0610 - Nechako River Bridge, Vanderhoof, repairs		114,648.38	
B-1409 - Pleasant Valley Bridge and Burns Trestle, concrete curbs		27,288.78	
B-1619 - Brewer Creek and Knockholt Creek Bridges, repairs		39,639.19	
B-1708 - Walcott Footbridge, tower reconstruction		80,000.00	261,576.35
Bridge Branch:			
Project B-0708 - Vanderhoof West Bridge and Overhead, West Bridge-Highway 27, across Nechako River, West Overhead-Highway 27 over C.N.R.			698,615.81
Paving Branch:			
Project S-0084 - Miscellaneous surface seals, Southbank miscellaneous roads		710.50	
S-0414 - Fraser Lake area, miscellaneous roads		523.83	
S-0763 - Village of Vanderhoof Streets and miscellaneous roads, Vanderhoof area, asphalt surfacing (47.7km)		3,324.00	
S-5518 - Village of Burns Lake, storm sewer, curb and gutter and paving (1.50 miles)		36,855.42	41,413.75
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Burns Lake, survey and design for connector route from Yellowhead Highway 16 to Highway 35 overpassing C.N.R.		43,415.32	
-Canadian National Overhead Westside at Vanderhoof		28,826.32	
-D.L.338 to D.L.623 Highway 16 west of Houston		9,726.54	
-Vanderhoof Grid-Boundary Road extension, Victoria Street to 4th Street		7,016.00	
-Vanderhoof-Stuart Lake (27), Nechako River Bridge approaches		52.00	
-Yellowhead Highway 16, Derksen Road to Carmen Hill Road 2km east of Vanderhoof 10km		34,313.44	123,349.62

OMINECA ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-1077 -(1) Route 16 at West Fraser Sawmill Crossing, Fraser Lake, flashing beacon and lighting installation. (2) Route 16 at Fraser Avenue, Vanderhoof, lighting and signing installation. (3) Route 16 at Empire Street, Fort Fraser, flashing beacon and lighting installation			497.50
Highway Safety Branch:			
Project C-0204 - School Route improvements, pedestrian underpass, Route 16 at Chowsunket Street			21,996.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Hamp Road		1.00	
-Hospital Road 41		1.00	
-Lakes District Road 104		2,142.25	
-Neal Road 1077		1.00	
-Palling Road 88		850.00	
-Sackner Road 128		4,062.00	
-Sinkut Lake Road 65, Lakes Road 104 and Hargreaves Road 51		1,169.00	8,226.25
Municipal Programs Branch:			
Secondary Highway Construction and Improvements:			
Project V-1639 - 286B, Telkwa Coal Road, Village of Telkwa			8,602.00
Total, Omineca Electoral District			$11,423,951.83

PRINCE GEORGE NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,602,516.89
Snow removal			990,109.88
Bridge maintenance			96,133.59
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0140 - Minor Betterments, miscellaneous		21,925.15	
C-1514 - Mackenzie arterial, reconstruct		29,943.37	
C-1770 - Highway 97, Bear Lake to Red Rocky, fill and clearing		163,082.46	
C-1826 - Forest access road, Prince George area , Chief Lake and Ness Lake Roads,reconstruction		99,891.10	

PRINCE GEORGE NORTH ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
Project C-4181 - Miscellaneous school bus and feeder Routes-Prince George, reconstruction, ditching and gravelling(see also Prince George South)		49,630.29	
W-0356 - Fencing Schedule 2 Highways		9,986.80	374,459.17
Construction Branch:			
Project C-0102 - Highway 97, John Hart Highway, Summit Lake Bypass, construction 47.33km to 59.14km		1,662,396.29	
C-2792 - Hart Highway 97, Nechako River to Chief Lake Road, construction		2,591,252.59	4,253,648.88
Bridges and Ferries:			
Day Labour			
Project B-1002 - Gravel Creek, Beaver Dam and Old Fraser River Bridge (see also Prince George South)		14,968.52	
B-1416 - Misinchinka Bridge, pile protect and upgrade		16,593.17	31,561.69
Bridge Branch:			
Project B-1400 - Foothills Road Bridge over Nechako River			2,389,366.45
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-Highway 97 McLeod Lake-Honeymoon Creek Bridge 112km-182.4km	3,055.97		
-Highway 97 Summit Lake, Sawmill Road to Angusmac 57.7km-87.84km	331,579.40	334,635.37	
S-0085 - Miscellaneous Drum Mix Paving, Highway 97, 87.8km-114.0km Angusmac Bridge to Logging Road 114.km		1,018,663.04	1,353,298.41
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Bear Lake B.C.R. Underpass, Hart Highway 97		29,548.15	
-Chief Lake Road to Parsnip River		47,443.05	
-Hart Highway from Prince George to Chief Lake Road Junction		97.40	
-John Hart from Parsnip River to Pine Pass		5,093.43	
-Miscellaneous from Prince George to Northwood Pulpmill access road		966.00	83,148.03
Traffic Branch:			
Project E-0716 - Route 97 (Hart Highway) Prince George, Nechako River to Chief Lake Road, lighting and signal installation		50,047.17	
E-1397 - Route 97 at Nechako Bridge interchange, Prince George, lighting installation		25,996.45	
E-1592 - Route 97 at Summit Lake access, Summit Lake, lighting installation		2,298.70	78,342.32

PRINCE GEORGE NORTH ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-2370 Booth Road		1.00	
-Hart Highway 97, Knell Road to Chief Lake Road		16,875.00	
-Hart Highway 97, Nechako River to Knell Road		12,707.88	
-Lacasse Road		1.00	
-Old Summit Lake South Road 210		500.00	
-Road 157		2,838.84	32,923.72
Total, Prince George North Electoral District			$11,285,509.03

PRINCE GEORGE SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			6,036,492.24
Snow removal			2,295,913.04
Bridge maintenance			582,765.33
Ferry maintenance and operation Isle Pierre Ferry			32,251.02
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0140 - Minor Betterments,			
-Gravelling	109,152.73		
-Miscellaneous	360,801.95	469,954.68	
C-0141 - Minor Betterments, miscellaneous		26,527.74	
C-0145 - Minor Betterments, miscellaneous		204,221.23	
C-0445 - Miscellanous school bus routes, Quesnel, upgrade and reconstruct (see also Cariboo)		37,492.92	
C-0880 - Miscellaneous school bus routes, McBride area,gravel		71,911.79	
C-1513 - Prepare major routes for re-surfacing, patch and crack seal		38,700.40	
C-1515 - Prince George Arterial north of 5th Avenue, widen for merge lane		25,941.20	
C-1521 - Barnett Road 532, relocate and construct		61,625.56	
C-1650 - Highway 16 west, Chilako Hill slide,stabilization		37,103.00	
C-1657 - Foothills Bridge approach, right-of-way clearing		2,129.75	
C-1771 - Highway 16 east,widening		194,338.42	
C-4180 - Upper Fraser Road, construct,gravel and clear right-of-way		284,853.99	

PRINCE GEORGE SOUTH ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
C-4181 - Miscellaneous school bus and feeder routes, Prince George, reconstruction, ditching and gravelling (see also Prince George North)		159,941.20	
C-4184 - Longworth Access Road, construct extension to Longworth Crossing		22,984.20	
C-4237 - Eddie Road 522, reconstruction of multiplate culverts and railroad crossings		49,790.51	
D-0010 - Rest area upgrading		32,500.00	
N-0429 - Guardrail installation		49,555.00	
N-0430 - Guardrail installation		1,860.45	
W-0356 - Fencing Schedule 2 Highways		9,986.81	
W-0357 - Fencing Schedule 2 Highways		7,176.62	
W-0361 - Fencing Schedule 2 Highways		22,460.38	1,811,055.85
Roadside Development and Landscape Branch:			
Project D-1547 - Highway 16, Mount Terry Fox viewpoint, installation of flush toilets and walkways			107,340.89
Bridges and Ferries:			
Day Labour			
Project B-1002 - Gravel Creek, Beaver Dam and Old Fraser River Bridge (see also Prince George North)		14,968.52	
B-1007 - Sand Creek and Dunster Bridge		70,266.59	
B-1415 - Dome Creek Bridge 3, replace		67,935.80	
B-1424 - Miscellaneous bridge repairs (repair all seal joints) (see also Kamloops)		11,997.65	165,168.56
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-Highway 16 "W" Yellowhead, Prince George to Bednesti (44km to 94.0km)	328,770.98		
-Highway 97,District Boundary to Cale Creek to Sintich Road 65.18km to 96.05km	306,000.85		
-Highway 5, 0.0km to 18.9km Avola to Messiter Summit 87.84km	137,857.49	772,629.32	
S-1722 - Yellowhead Highway 16, east,Upper Fraser Road to Bowron River Bridge		10,793.00	
S-4102 - Miscellaneous roads, Prince George area east of Fraser River (44.2km)		8,849.40cr.	774,572.92
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Airport Hill to Tabor Lake		675.63	
-Foothills Road Otway Road to Chief Lake Road		29,634.02	
-Highway 16, Prince George Airport Hill		71,009.58	
-Highway 97 at B.C.R. Industrial Site, Prince George		181.51	

PRINCE GEORGE SOUTH ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services - continued			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Miscellaneous from Prince George to Northwood Pulpmill access road		966.00	
-Prince George 5th Avenue, interchange with Highway 97		22,225.65	
-Upper Fraser Road 458 from Giscombe to Eaglet Lake		97.40	124,789.79
Traffic Branch:			
Project E-0613 - Route 16 at Vance/Cowart Roads, Prince George, signal installation and lighting revision		1,508.94	
E-1080 - Route 16 at Backwater Road and Route 16 at Haldi Road,Prince George,lighting installation		7,886.38	
E-1133 - West approach-Old Fraser River (C.N.R.)Bridge, Prince George, lighting installation		20,336.80	
E-1163 - Route 19(Terminal Ave.) at Townsite Road, Nanaimo,signal revision and lighting installation		21,020.01	
E-1608 - Route 97,Sintich Road to Pacific Street,Prince George, lighting installation		93,110.30	143,862.43
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Barnett Road 532		5.00	
-Blackwater Road 325		1.00	
-Buckhorn Lake Road 123		84.00	
-Camp Creek Road 330		1,375.00	
-Dore River Road 565		2,998.49	
-Dunster-Croyden Road		1.00	
-Eddy Road 552		650.00	
-Foothills Boulevard, Otway Road to North Nechako Road		1.00	
-Fraser River Crossing		1,500.00	
-Highway 16E		15,133.60	
-Highway 97 and Jenks Road		36,227.05	
-Mountain View Road 544		3,528.00	
-West Lake Fraser River Road 330		303.80	
-Yellowhead Highway16,20th Avenue to Parkridge Heights		1,414.94	63,222.88
Total, Prince George South Electoral District			$12,137,434.95

PRINCE RUPERT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,649,756.79
Snow removal			513,755.88
Bridge maintenance			103,608.48
Ferry maintenance and operation -			
Misty Islands Ferry subsidy		33,000.00	
Prince Rupert Ferry subsidy (Dodge Cove)		15,960.00	
Queen Charlotte Islands Ferry		631,847.36	680,807.36

PRINCE RUPERT ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0147 - Minor Betterments, miscellaneous		134,107.60	
C-1523 - Queen Charlotte Islands, erosion control, build access road to quarry and establish rip rap pile		199,419.46	
N-0390 - Guardrail installation		11,411.35	344,938.41
Construction Branch:			
Project C-4483 - Prince Rupert-Ridley Island, construction Sta.43+20.00 to Sta.110+49.447 (6.73km)			2,539,206.64
Bridges and Ferries:			
Bridge Branch:			
Project B-0697 - Ridley Island Overhead Bridge located over C.N.Rail on Prince Rupert to Ridley Island Highway			119,857.15
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Prince Rupert to Port Simpson		484.00	
-Tyee to C.N.R.Overpass approaches		72,812.56	73,296.56
Traffic Branch:			
Project E-1605 - Route 16 at Ridley Island access, Prince Rupert, lighting installation			9,261.00
Total, Prince Rupert Electoral District			$6,034,488.27

RICHMOND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			858,792.83
Snow removal			18,799.78
Bridge maintenance			356,822.97
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous			73,464.50
Construction Branch:			
Project C-3325 - George Massey Tunnel, Highway 99, installation of sprinkler system (see also Delta)			137,660.05

RICHMOND ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Highway 99,widening through part of Section 22, Block 5 N. Range 6 West, N.W.D.		1,776.01	
-Widening through Lot 4, Plan 4124 the E.67' of Lot 4, Plan 4124 and Lot 5 Parcel C, Plan 6125, Section 22, Block 5 N.,R6M,south approach Oak Street Bridge		1,472.73	3,248.74
Bridges and Ferries:			
Bridge Branch:			
Project B-1666 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge, pile driving and load tests(see also Delta and New Westminster)			74,258.58
Paving Branch:			
Project S-1738 - Lower Mainland and miscellaneous roads,King George Highway,108th Street to Fraser Highway,King George Highway,62nd Avenue to Highway 10,Scott Road, 70th Avenue to Highway 10, Highway 17,56th Street to Tsawwassen Ferry Terminal,Knight Street south end Knight Street Bridge to Westminster Highway(see also Delta and Surrey)			493.99
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Minor road surveys		109.00	
L-0558 - Fraser River Crossing (Annacis Island),			
-4 Road, Hamilton(Gilley Route)	56,911.95		
-Westminster Highway,Knight Street to Hamilton Road	75,117.57	132,029.52	132,138.52
Traffic Branch:			
Project E-1117 - Route 99 at 5 Road intersection, Richmond, lighting installation			14,535.80
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), geotechnical investigations (see also Delta and New Westminster)			103,665.16
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Knight Street Bridge, roadworks			198,478.50
Total, Richmond Electoral District			$1,972,359.42

ROSSLAND-TRAIL ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,370,797.50
Snow removal			1,298,299.00
Bridge maintenance			76,910.62
Ferry maintenance and operation- Castlegar Ferry			221,149.26
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads: Day Labour Project C-0132 - Minor Betterments, miscellaneous		225,482.34	
C-1484 - Moller, Lehue, Hetman Roads, miscellaneous paving		90,000.30	
N-0382 - Guardrail installation		46,572.06	362,054.70
Legal Surveys Office: Legal Surveys - Project L-0099 -Schofield Highway 22 in part of Plan X-62 Tp9A and Plan X-65 Tp8A K.D.(S.L.67 to S.L.43)			11,433.02
Bridges and Ferries: Day Labour Project B-0254 - Castlegar Ferry ramps, construction, replace with fill		6,888.00	
B-1369 - Beaver Creek Bridge, Trail-Salmo Highway,replace		29,682.65	36,570.65
Paving Branch: Project S-0084 - Miscellaneous surface seals, -Highway 22,Castlegar to Blueberry Creek, Highway 3A, Castlegar to Thrums	13,391.00		
-Highway 3B 0km-10km Rossland North	6,131.00	19,522.00	
S-0646 - Highway 3, Paulson Bridge to Kinnaird Overpass(48.4km)		32,153.15	51,675.15
Planning and Engineering Services Highway Design and Surveys Branch: Surveys Generally - Project L-0101 -Castlegar interchange		12,592.35	
-Castlegar-Pass Valley (Pass Creek Road)		22,788.88	
-Deer Park-Syringa Creek		153.00	
-Highway 3A from Glenmerry to Montrose		19,006.00	
-Highway 3A from Tadanac to Trail		280,497.94	
-Minor road surveys		3,807.25	
-Murphy Creek, Highway 22, relocation		10,115.15	348,960.57
Traffic Branch: Project E-1616 - Route 3B,Smelter Hill Road to Columbia River Bridges, Trail, signal and lighting replacement			88,697.62
Highway Safety Branch: Project C-0205 - General safety works, -4 wheelchair ramps at arterial crossing sites in downtown and east Trail			2,400.00

ROSSLAND-TRAIL ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Brown Road 97		6,397.88	
-Castlegar Arterial 626R		960.00	
-Highway 3B		2,620.00	
-Little Slocan South Road 105		2,526.21	
-Pass Creek Road 260		25,060.10	
-Rivervale Road 58		2,875.00	
-Sherstobitoff Subdivision Road		1,384.00	
-Southern Trans Provincial Highway 3, Glenmerry-Montrose		2,399.53	
-Southern Trans Provincial Highway 3, Kinnaird interchange		202.95	
-Trail-Tadanac Highway		376,034.28	420,459.95
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0730 - 129B, Columbia Gardens Road, Village of Fruitvale		120,000.00	
V-1136 - 285B, Warfield Hill, City of Trail		15,975.00	135,975.00
Total, Rossland-Trail Electoral District			$4,425,383.04

SAANICH AND THE ISLANDS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,506,272.69
Snow removal			59,800.00
Bridge maintenance			35,000.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		3,703.00	
C-0153 - Minor Betterments, miscellaneous		161,537.60	
C-1537 - Highway 17,Glidden Road, turn slots		146,555.78	
C-1541 - Lapage and Collins Roads, Saltspring Island, widen		28,402.50	
N-0396 - Guardrail Installation		23,511.75	363,710.63
Construction Branch:			
Project C-1711 - Part B-McKenzie Avenue extension,Burnside Road to Douglas Street,construction Part C-Swan Creek Bridge, construction Part D-Carey Road pedestrian overpass, construction			115,603.41

SAANICH AND THE ISLANDS ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-McKenzie Avenue extension Burnside Road to E.Bdy.Sec. 77,Victoria District		2,290.72	
-Pat Bay Highway 17 through Lot 5 and Part Lot 6,Part Lot 7 and 8 all of Plan 1375 Sect.33(LTO Plan 33534)		774.64	
-Statutory right-of-way for highway through remainder Lot 18,N.Saltspring Island N.End Road LS Saltspring Island		448.80	
-Widening in Block 2 Plan 1408 and Lots A and B Plan 9595 Sec. 21-Admirals Road-Frontage Road		699.45	4,213.61
Roadside Development and Landscape Branch:			
Project D-1611 - Highway 17A, Brentwood Bay Village, landscape improvements		20,406.00	
D-1735 - Ravine Way,landscape development		22,247.35	42,653.35
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Durrance Lake Road relocation (Hartland Road-Durrance Lake)		119,491.06	
-McKenzie Avenue from Trans Canada Highway (Victoria outlet) to Highway 17 (Pat Bay Highway)		51,993.68	
-Pat Bay Highway, Beacon Avenue interchange		1,378.00	
-Patricia Bay Highway from Tolmie to Ralph		87.45	172,950.19
Traffic Branch:			
Project E-1613 - Route 17 at Beacon Avenue, Sidney,traffic signal and lighting installation (signal revisions)		70.00	
E-1638 - Route 1(Douglas) at Saanich Road, Saanich,signal and lighting revision		34,746.30	34,816.30
Highway Safety Branch:			
Project C-0206 Demonstration Projects, guardrail connectors placement			3,362.08
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Blanshard Street extension		37,976.80	
-Mansell Road		1.00	
-McKenzie Avenue extension		7,063.00	
-Pat Bay Highway and Seyward Road		1,470.37	46,511.17
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0797 - 121B, Keating Cross Road, District of Central Saanich			220,787.24
Total, Saanich and the Islands Electoral District			$3,605,680.67

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,605,083.39
Snow removal			2,580,116.96
Bridge maintenance			577,856.25
Ferry maintenance and operation–			
Shuswap Lake Ferry		26,400.00	
Upper Arrow Lakes Ferry		1,426,481.37	1,452,881.37
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0124 - Minor Betterments, miscellaneous		328,626.23	
C-0125 - Minor Betterments, miscellaneous		53,019.85	
C-0138 - Minor Betterments, miscellaneous		237,139.69	
C-0819 - Miscellaneous roads in the Salmon Arm area, pavement patching		79,771.89	
C-0829 - Miscellaneous roads in the Vernon area,paving(see also Okanagan North)		15,010.00	
C-1463 - Trans Canada Highway 1, Lybarger Road,reconstruction of junction and left turn slot		149,971.40	
C-1464 - Avoca West Road, reconstruction		19,996.95	
C-1465 - Trans Canada Highway, Arterial 683R, curbing		49,791.31	
C-1469 - Enderby to Mabel lake Road, slide repair		34,997.16	
C-1495 - Hill Creek Road, reconstruct		40,000.40	
C-1631 - Enderby to Mabel Lake Road, reconstruction		23,961.65	
C-1683 - Edgar Road, clearing, construction and drainage installation		9,845.70	
D-1553 - Rest area upgrading		20,000.00	
N-0374 - Guardrail installation		49,389.50	
N-0375 - Guardrail installation		3,879.15	
N-0388 - Guardrail installation		48,701.13	
W-0345 - Fencing Schedule 2 Highways		97,572.29	
W-0346 - Fencing Schedule 2 Highways		7,910.28	1,269,584.58
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-72 Gardom Lake Road through part of S1/2 of W1/2 of NW 1/4 Section 15 Tp19 R9 W6M K.D.Y.D.		1,453.00	
-830 Ward Road in Lots 6012,6142, 7583 and 8684 K.D.		4,600.00	
-Balfour-Kaslo-Galena Bay Highway 31 through D.L.7950 K.D.		3,012.63	
-Sorrento Eagle Bay Road through Part Lots 4 and 5 Plan 8538 NE1/4 Sec.33 Tp22 R10 W6M K.D.Y.D.		250.00	
-Explanatory Plan through Lot 1 Plan 13830 D.L.496 Gp1 K.D.Y.D., Okanagan Highway-drainage easement		250.00	

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Public roads through Toop Indian Reserve 3, Hustalen I.R.1 and Sec.18 Tp23 R12		14,823.68	
-Skimikin Road 30 E.Bdy.Sec.19 to W.Bdy.Sec.14 Tp21 R10 W6M		10,634.76	
-Through part Lot 27 Plan 690 NE1/4 Sec.17 Tp22 R11 W6M T.C.H. and Pachendale Road, Sorrento		328.50	
-Trans Canada Highway through Part of Sections 29, 32 and 33 in Township 23 R2 W6M		300.00	35,662.57
Bridges and Ferries:			
Day Labour			
Project B-1438 - Kaiser Bridge,reconstruct		148,077.99	
B-1511 - Trout Lake Bridge		148,987.08	297,065.07
Bridge Branch:			
Project B-0551 - Enderby Bridge over Shuswap River, Mabel Lake Road			15,045.95
Paving Branch:			
Project S-0034 - Highway 23,Revelstoke-Mica Highway relocation, Downie Creek to Bigmouth Creek section		3,936.60cr.	
S-0084- Miscellaneous surface seals,			
-Lac La Jeune Road from 8.5km to District Bdy. 22.5km	107,799.70		
-Salmon Arm area roads 26.4km (a) Tappen Valley Road,Tappen to Notch Hill 6.7km, Balmoral to Sorrento 10.4km Trans Canada Highway 1 to Parrie Road 7.2km and Bolton Road 2km (b) Notch Hill Road (c) White Lake Road	208,094.74		
-Road chip seal, Half River-Galena Bay	174.30		
-Highway 31-Galena Bay-Armstrong Lake, Trout Lake Road 16.0km	369.25	316,437.99	
S-1455 - Highway 97, Swan Lake junction to Schweb's Bridge (18.4km), asphalt surfacing (see also Okanagan North)		901,019.25	
S-1590 - Trans Canada Highway 1, Craigellachie to Revelstoke, miscellaneous paving (9.1km)		601,436.76	1,814,957.40
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 31,Gerrard to west side of Trout Lake		8,053.43	
-Highway 97 to Crosier Road, Swan Lake junction		837.50	
-Improvement of west intersection at Revelstoke		10,095.36	
-Left turn slots at Mindenhall and St.Ann Road intersection with Highway 97		2,130.77	
-Minor road surveys		43,780.97	
-Miscellaneous-Shuswap River Bridge at Enderby		618.92	
-Salmon Arm grid roads		961.00	
-Salmon Arm from Shuswap to 40th Street north east on Highway 1		3,705.26	

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Highway Design and Surveys Branch - continued:			
Surveys Generally - Project L-0101			
-Trans Canada Highway 1-Blind Bay, upgrading and intersection design		9,689.82	
-Westwold to Monte Creek, widening project		1,404.00	81,277.03
Traffic Branch:			
Project E-1112 - Route 5 at Summit Drive, Kamloops and Route 1 at Gleneden Road/1st Avenue south west, Salmon Arm, lighting installation (see also Kamloops)			7,380.84
Highway Safety Branch:			
Project C-0203 - Intersection improvements, -Highway 97A, intersection and sight distance improvements at Rosedale Avenue, Armstrong		49,974.00	
C-0204 - School route improvements, Highway 31A, widen shoulder and pave for pedestrian walkway		11,624.00	61,598.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-291 Back Road		3,000.00	
-403 Hilltop Road		4,300.00	
-Airport Way Road 520		11,910.00	
-Balfour-Kaslo, Galena Bay Highway 31		14,119.20	
-Cambie-Solsqua Road 618		45.00	
-Chase-Falkland Road 194		4,400.00	
-Dieppe Road 168		2,450.00	
-Ewart Road 683		1,000.00	
-Gardiner Gravel pit		115.00	
-Gravel pits		1.00	
-Hazelhurst Road 221		1,955.00	
-Hendrickson Road 59		1.00	
-Hepburn Road 198		900.00	
-Highway 97A, Sicamous Bypass		2,700.00	
-Hustalen Indian Reserve 1		6,100.70	
-London Lane		50.00	
-Magna Bay		1.00	
-Monte Lake Road		1.00	
-Okanagan Highway 97A		301.00	
-Revelstoke eastern access		47,790.00	
-Salmon River Road		5,520.52	
-Samuelson Road 656		1,680.00	
-Sicamous Bypass Highway 97A		48,500.00	
-Silta Road 66134-19A		620.00	
-Sorrento-Eagle Bay Road		3,500.00	
-Trans Canada Highway, widening at Gleneden Road		70,317.62	
-Yankee Flats Road 363		3,600.00	234,878.04
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1301 - City of Revelstoke			150,000.00
Secondary Highway Construction and Improvements			
Project V-1166 - 24B, Auto Road, District of Salmon Arm		23,690.10	
V-1167 - 282B, Pine Street, Village of Chase		1,928.06	
V-1755 - 217B, Valley Road, District of Salmon Arm		8,737.78	34,355.94

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
HYDRO DEVELOPMENT - HIGHWAY CONSTRUCTION			
Roads:			
Highway Design and Surveys Branch:			
Project L-3890 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section 2 29.0km to 60.3km		962.62	
L-3891 - Highway 23, Revelstoke-Mica Highway relocation, Goldstream Creek to Mica Village Section 3,91.7km to 132.6km		6,440.08	7,402.70
Construction Branch:			
Project C-3936 - Highway 23, Revelstoke-Mica Highway relocation, construction Revelstoke to Mica Sta. 840+52.08 to Sta.908+68.366 (6.82km)		6,878,568.84	
C-3939 - Highway 23, Revelstoke-Mica Highway relocation, construction Sta.280+00 to Sta.331+70 5.2km		26,923.36	
C-3940 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section 35.1km to 38.9km		24,200.65	
C-3941 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section 39.2km to 46.6km		39,442.00	
C-3943 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section Sta.586+13.7 to Sta.660+30		609,954.04	
C-3958 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section Sta.661+21 to Sta.743+50		1,045,205.24	
C-3959 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite (91.7km to 96.8km)Sta.917+00 to Sta.955+04 (3.8km)		13,478.25	
C-3960 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Sta.1071+59.984 to Sta.1162+93.960 (9.1km)		2,415,957.13	
C-3961 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Sta.1182+40 to Sta.1255+40		164,563.18	
C-3962 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Section Sta.1255+44.263 to Sta.1325+90.713 (6.1km)		1,313,538.74	12,531,831.43
Geotechnical and Materials Engineering Branch:			
Project G-0428 - Highway 23, Revelstoke-Mica Highway relocation, Geotechnical investigations			12,420.99
Property Services Branch:			
Project P-0037 - Rights-of-way and Property Purchases, Highway 23, Revelstoke -Mica Highway relocation			4.00

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Bridges:			
Bridge Branch:			
Project B-0796 - Highway 23, Revelstoke-Mica Highway relocation, Carnes Creek and Laforme Creek Bridges		192,597.43	
B-1079 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek Bridge		2,304,540.95	
B-1232 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek Bridge		1,132.56	
B-1233 - Highway 23, Revelstoke-Mica Highway relocation, Carnes Creek Bridge		76,059.29	
B-1234 - Highway 23, Revelstoke-Mica Highway relocation, Mars Creek Bridge (including Holdick Creek removal)		64,695.81cr.	
B-1235 - Highway 23, Revelstoke-Mica Highway relocation, Bigmouth Creek Bridge 1095		1,304.04	2,510,938.46
Paving Branch:			
Project S-1063 - Highway 23, Revelstoke-Mica Highway relocation, Mars Creek to Downie Creek			2,737,650.22
Total, Shuswap-Revelstoke Electoral District			$32,017,991.19

SKEENA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,886,600.91
Snow removal			1,501,667.22
Bridge maintenance			478,549.74
Ferry maintenance and operation-Usk Ferry			112,030.19
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0148 - Minor Betterments, miscellaneous		187,000.00	
C-0150 - Minor Betterments, miscellaneous		260,484.31	
C-0497 - Babine Lake Road, reconstruct 40km to 61km		199,774.79	
C-1451 - Minor Betterments, miscellaneous		49,983.00	
C-1525 - Kirkaldy Subdivision, Thornhill area, construct access road		33,719.00	
C-1526 - Eurocan intersection, Kitimat arterial H530R, improve		44,000.00	
C-1531 - Highway 16, Smithers arterial, between Queen and King Streets, shoulder widening		47,267.24	

SKEENA ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
C-1785 - Terrace area miscellaneous roads, prepare for paving		669,654.83	
C-2545 - Kalum Lake Road, reconstruction		611,905.65	
D-1555 - Rest area upgrade		17,643.81	
N-0391 - Guardrail installation		13,100.00	
N-0392 - Guardrail installation		21,898.37	
W-0363 - Fencing Schedule 2 Highways		33,264.13	2,189,695.13
Construction Branch:			
Project C-0253 - Highway 16,(Yellowhead Highway) Kasiks-Backwater Creek (8.56km)		7,536,673.77	
C-2137 - Nilkitkwa Forest Service Road, Smithers		15,000.00	7,551,673.77
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Cassiar Highway 37 N.Bdy.L1213 to W.Bdy.L1879 Cassiar District			26,197.30
Bridges and Ferries:			
Day Labour			
Project B-1406 - No Name Bridge, Kitimat Village Road, replace		183,000.00	
B-1407 - Thornhill Bridge, Queensway, repair		39,383.42	
B-1786 - Glacier Creek Bridge, reconstruction		60,009.16	
B-1787 - Goat Creek Bridge, reconstruction		32,656.75	
B-1788 - Douglas Creek Bridge, reconstruction		32,656.75	
B-1789 - Clear Creek Bridge, reconstruction		32,666.74	
B-1791 - Cordella Creek Bridge, reconstruction		15,910.43	396,283.25
Bridge Branch:			
Project B-0808 - Terrace Bridge, redeck and painting		83,361.00	
B-1076 - Kasiks Overhead, Yellowhead Highway, five span steel plate girder bridge		14,859.71	
B-1383 - Yellowhead Highway 16: Slickenside Creek Bridge; Polymar Creek Bridge; Snowbound Creek Bridge		264,457.90	
B-1670 - Highway 16 Terrace-Prince Rupert Bridges: Ekumsekum Creek Bridge, Marigonish Creek Bridge, Antigonish Creek Bridge, Inver Creek Bridge, Aberdeen Creek Bridge		282.00	362,960.61
Paving Branch:			
Project S-0640 - Highway 16, New Hazelton-Mudflat (including Kispiox Road intersection 16 Kzan)		63,268.87	
S-5201 - Highway 16, Khyex River-Backwater Creek 51.4km to 77.8km (26.4km)		10,434.66	73,703.53

SKEENA ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Carnaby Crossing to Kitsequeda Yellowhead Highway 16 west		3,361.25	
-Highway 16 and Kathlyn Lake Road		13,710.95	
-Highway 16,D.L.4804 to Andesite Creek (Pollywog Creek)		14,598.96	
-Highway 16,Exchamsiks River to D.L.5841		5,336.35	
-Khyex River to Aberdeen Creek		38,125.56	
-Kitimat Industrial Road (Eurocan)		1,127.00	
-Kitwanga-Meziadin Lake from Kitwanga to D.L.3401		3,128.80	
-Shames (Lot 5621) Tyee		184,080.72	
-Smithers Arterial from Bulkley River to Kathlyn Street		3,171.00	
-Smithers Telkwa Grid Road		4,896.31	
-Smithers-Telkwa Section 2 Region 4		10,340.99	
-Terrace Bypass		2,713.00	
-Terrace to Nass River Road,Cedar River to Tseax Junction		1,790.74	286,381.63
Traffic Branch:			
Project E-1581 - Route 16 at Queen Street, Smithers, signal and lighting installation		22,546.75	
E-1604 - Route 16 at Route 25, Terrace, lighting installation		26,282.00	
E-1612 - Route 16 at Route 37, Kitwanga, lighting installation		12,652.00	61,480.75
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Bench Road 424		276.50	
-Haaland Avenue 222		11,978.00	
-Highway R/W Yellowhead Highway 16, through C.N.R. D.L.863, Cassiar District		41,069.75	
-Salmon River Road		1,561.00	
-Sundry expenses		32.00	54,917.25
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0927 - New Hazelton, maintenance of annexed area			30,000.00
Total, Skeena Electoral District			$18,012,141.28

SOUTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,500,906.65
Snow removal			2,350,884.00
Bridge maintenance			243,085.02
Ferry maintenance and operation-Clayhurst Ferry			282,777.48

SOUTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0142 - Minor Betterments,			
-Reconstruction and gravelling Sweetwater Road and Mile 14 Road	100,639.10		
-Regravelling farm access roads, Pouce Coupe and Dawson Creek areas	130,888.97		
-Regravelling old subdivision roads	63,321.60		
-Miscellaneous	139,991.17	434,840.84	
C-0164 - Highway 2(Heritage Highway) to Red Willow Junction, gravel and dust control		123,044.15	
C-0871 - Highway 97 to Tumbler Ridge,Fellers Heights Road, gravelling,grading, Dust control		633,941.76	
C-1519 - Miscellaneous bus routes, ditching, drainage and gravelling		991,707.82	
C-1520 - Heritage Highway, Tumbler Ridge to Babcock, reconstruct		399,641.98	
C-1665 - Flood damage, Dawson Creek area		254,496.08	
N-0431 - Guardrail installation		30,425.25	
W-0358 - Fencing Schedule 2 Highways		45,225.50	2,913,323.38
Construction Branch:			
Project C-0745 - Northeast Coal Development Road, Martin Creek to Upper Martin Creek		7,044,405.17	
C-0746 - Northeast Coal Development Road, Upper Martin Creek to Gwillim Lake		3,193,590.09	
C-0747 - Northeast Coal Development Road, Gwillim Lake to Meikle Creek		1,924,689.92	
C-0748 - Northeast Coal Development Road, Bullmoose Creek to Tumbler Ridge west		10,151,968.26	
C-0749 - Northeast Coal Development Road, Bullmoose Creek to Tumbler Ridge east, construction		5,790,343.32	
C-1138 - Northeast Coal Development Road, Meikle Creek to Bullmoose Flats		2,755,212.66	
C-4513 - Northeast Coal Development Road, Highway 97 to Martin Creek(14.3 miles)Sta.21+05.42 to Sta.778+50		1,313,805.49	32,174,014.91
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Heritage Highway 52 through lots 334,415,416,419 and 420 Peace River District			8,690.23
Bridges and Ferries:			
Day Labour			
Project B-1421 - Pringle Creek Bridge, reconstruct			124,920.99

SOUTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Bridge Branch:			
Project B-0725 - Northeast Coal Development Road, Dickebusch Creek Bridge, Sukunka Road		275,292.93	
B-0975 - Northeast Coal Development Road, Bullmoose Creek Bridge and Bullmoose Flats Bridge		2,447,804.93	
B-0977 - Northeast Coal Development Road, Murray River Bridge		1,599,495.66	
B-0978 - Northeast Coal Development Road, Flatbed Creek Bridge and Wolverine River Bridge		2,744,053.59	
B-1158 - West Pine Bridge 1197, John Hart Highway 97		756.24	
B-1393 - Northeast Coal Development Road, Twidwell Bend Bridge		2,394,173.67	9,461,577.02
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-58.62km to 80.42km 6km Mt. Lemoray yard (68.81km)		275.97	
S-1303 - Northeast Coal Development Road, junction Highway 97 to Martin Creek Section		219,863.14	
S-1750 - Alaska Highway 97, North Kiskatinaw to Road 269, asphalt surfacing (see also North Peace River)		164.51	220,303.62
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-B. C. Rail overpass, Highway 97, Chetwynd	385.00		
-Clayhurst Bridge site	850.20		
-Hart Highway 97 from Pine Pass to West Pine Bridge	2,490.54		
-Hart-Wabi hill truck lane at Chetwynd and West Pine truck lane	5,103.00		
-Heritage Highway Surveys	108,910.04		
-Highway 49, Arterial Highway R363, traffic circle to east city boundary	21,007.17		
-Rolla Highway from 8th Street to B.C.R. Crossing approximately 1.241km "Highway 49"	190.00	138,935.95	
L-3424 - Northeast Coal Development Road, Martin Creek to Gwillim Lake, Section 2 design		5,946.18	
L-3507 - Northeast Coal Development Road, Gwillim Lake to Tumbler Ridge, Section 3 design		4,367.63	149,249.76
Highway Safety Branch:			
Project C-0204 - School route improvements, Chetwynd foot bridge		6,263.00	
C-0205 - General safety works, installation of two directional amber flashing lights at East Pine Bridge		8,280.00	14,543.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Northeast Coal Development Road, junction Highway 97 to Martin Creek			11,474.39
Total, South Peace River Electoral District			$51,455,750.45

SURREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,600,311.29
Snow removal			72,716.12
Bridge maintenance			142,215.36
Ferry maintenance and operation- Barnston Island Ferry			414,384.58
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, -Johnston eastbound ramp Route 1, ditching, shoulder widening, base strengthening	60,037.93		
-Miscellaneous	76,556.42	136,594.35	
C-0122 - Minor Betterments, miscellaneous		32,841.74	
C-0802 - Scott Road at 70th Avenue, culvert replacement (see also Delta)		25,000.00	
C-1434 - Minor Betterments, miscellaneous		47,158.84	
W-0793 - Fencing Schedule 2 Highways		33,706.57	275,301.50
Bridges and Ferries:			
Day Labour			
Project B-1580 - Nicomekl Bridge,stringer and deck replacement			99,000.00
Ferries:			
Project H-1648 - Barnston Island Ferry, rebuild and resection barge			112,003.09
Paving Branch:			
Project S-1598 - Pattullo Bridge deck, patch paving (see also New Westminster)		8,875.63	
S-1738 - Lower mainland miscellaneous roads, King George Hwy., 108th Street to Fraser Highway, King George Hwy. 62nd Avenue to Highway 10, Scott Road 70th Avenue to Hwy. 10, Highway 17 56th St. to Tsawwassen Ferry Terminal, Knight St.,south end Knight Street Bridge to Westminster Highway(see also Delta and Richmond)		1,811.28	10,686.91
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Nicomekl River-64th Avenue on Highway 99A		4,058.45	
-Pattullo Bridge to River Road		3,026.00	
-Port Mann eastbound weigh scale site		123.00	
-Scott Road from Highway 1 to Highway 10 (see also Delta)		1,532.82	
-Scott Road, Old Yale Road to 96th Avenue (see also Delta)		5,834.70	
-South end of Pattullo Bridge		1,117.00	15,691.97

SURREY ELECTORAL DISTRICT - continued

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Traffic Branch:			
Project E-1153 - Route 15 at 8th Avenue, (Campbell River Road) Surrey, signal installation and lighting revision		47,064.66	
E-1403 - Route 99A at 152nd, Surrey, signal and lighting revision		20,391.76	
E-1457 - Route 1A at 148th, Surrey, signal and lighting installation		21,281.37	
E-1597 - Route 1A at 140th Street, Surrey, signal and lighting revision		8,284.80	
E-1637 - Route 10 at Route 99A, Surrey, signal and lighting replacement		63,698.57	
E-1769 - Fraser River Crossing (Annacis Island), Annacis Island Bridge, lighting installation (see also New Westminster)		4,823.02	165,544.18
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-King George Highway, 96th Avenue to 62nd Street		1,530.00	
-King George Highway, Fraser Avenue to 96th Avenue		3,484.79	
-Scott Road and Bridge Road, Pattullo Bridge approach, Old Yale Road King George Highway		17,183.60	
-Scott Road(120th Street), Surrey		2.00	22,200.39
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0766 - 182B, 152nd (Johnston Road), District of Surrey		78,994.42	
V-1811 - 149B, Marine Drive, City of White Rock		3,130.00	82,124.42
Total, Surrey Electoral District			$3,012,179.81

VANCOUVER CENTRE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			216,200.25
Snow removal			8,964.10
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments, miscellaneous		5,684.95	
C-1434 - Minor Betterments, Lions Gate Bridge, painting of cables		60,000.00	65,684.95

VANCOUVER CENTRE ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferries:			
Bridge Branch:			
Project B-1774 - Lions Gate Bridge, damage repairs(see also North Vancouver-Capilano)			30,020.44
Total, Vancouver Centre Electoral District			$320,869.74

VANCOUVER EAST ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			160,584.05
Snow removal			14,155.58
Bridge maintenance			20,595.10
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous			33,591.72
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Cassiar Street			118,445.39
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113 -Trans Canada Highway 1, 2nd Narrows Bridge to First Avenue			3,838.66
Total, Vancouver East Electoral District			$351,210.50

VANCOUVER-POINT GREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			147,817.08
Snow removal			8,240.25
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous			11,392.65

VANCOUVER-POINT GREY ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch:			
Project C-3912 - 16th Avenue and South West Marine Drive on U.B.C Endowment Lands, 4 laning			24,508.96
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Knight Street Bridge right-of-way widening in Lot 9 Plan 7029 D.L. 327 N.W.D.			1,199.44
Planning and Engineering Services			
Traffic Branch:			
Project E-1453 - 16th Avenue at Wesbrook Mall, U.B.C. Endowment Lands, traffic signal installation			24,168.00
Total, Vancouver-Point Grey Electoral District			$217,326.38

VANCOUVER SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			91,735.61
Snow removal			709.43
Bridge maintenance			42,736.20
Total, Vancouver South Electoral District			$135,181.24

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,708,378.09
Snow removal			327,189.65
Bridge maintenance			207,932.62
Ferry maintenance and operation-Woodfibre Ferry			724,181.11
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments,			
-Establishment of highways yard at Eagleridge	51,254.92		
-Miscellaneous	175,784.02	227,038.94	
C-1168 - Route 99(Squamish Highway)"M" Creek Bridge approaches		850,321.61	
C-1477 - Highway 99, Suicide Hill, stabilization		267,678.00	

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
C-1478 - Alta Westside Road, Whistler, elimination of Miller Creek Bridge		80,000.00	
C-1479 - Highway 99,Furry Creek, realignment		1,195,000.00	
C-3208 - Highway 99, Alpine Drive at Whistler to Pemberton,(Greenlake Section),gravel in preparation for paving		151,471.53	
D-1552 - Rest area upgrading		7,876.76	
N-0368 - Guardrail installation		54,500.00	2,833,886.84
Construction Branch:			
Project C-0252 - Highway 99,Cheakamus Canyon section,Squamish-Pemberton Highway(2.44km)			1,631,329.84
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Highway 99 through part D.L.2361 N.W.D.(Sunset Point)		1,318.50	
-Survey to amend foreshore Lot 5635 Group 1, N.W.D.		2,063.29	
-Trans Canada Highway through part northeast quarter of D.L.1070 and northwest quarter of D.L. 1071 Gp1 N.W.D.		670.00	4,051.79
Bridges and Ferries:			
Day Labour			
Project B-0677 - Golden Dreams Bridge			35,000.00
Bridge Branch:			
Project B-1096 - Culliton Creek Bridge, Squamish Whistler Highway	2,321,193.99		
-Recovery from Ministry of Environment (P.E.P.)	845,140.52cr.	1,476,053.47	
B-1145 - Nineteen Mile Creek Bridge, Valley Drive and Cheakamus River Bridge, Squamish Valley Road	78,819.31		
-Recovery from Ministry of Environment (P.E.P.)	20,983.08cr.	57,836.23	
B-1147 - "M" Creek Bridge, Garibaldi Highway 99		657,222.08	2,191,111.78
Paving Branch:			
Project S-0648 - Pemberton Meadows Road and Portage Road			13,626.88
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-99 Brohm Lake to Whistler junction		25,354.00	
-Garibaldi access,Vancouver to Whistler Mountain alternates		3,959.20	
-Horseshoe Bay to Newman Creek		1,012.33	
-Horseshoe Bay-Squamish		285,206.88	
-Minor road surveys		4,277.39	
-Mount Currie-Duffie Lake		19,112.38	
-Newman Creek to "M" Creek		25,957.90	
-Port Mellon-Squamish		14,997.50	
-Porteau Cove to Britannia		9,922.41	
-Whistler four laning West Road-Mons Highway 99		17,409.80	407,209.79

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-1646 - Route 99, Horseshoe Bay to Squamish, bridge lighting installations			111,293.32
Highway Safety Branch:			
Project C-0205 - General safety works, Horseshoe Bay, paint marking for speed reduction			541.70
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Bowen Island statutory right-of-way		2.00	
-Bowen Island stockpile site		1,500.00	
-Britannia Beach-Garibaldi Highway		185,000.00	
-Garibaldi Highway		2,335.00	
-Pemberton Highway		3,100.00	191,937.00
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0981 - Resort Municipality of Whistler			685,000.00
Total, West Vancouver-Howe Sound Electoral District			$12,072,670.41

YALE-LILLOOET ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			8,786,276.92
Snow removal			2,687,954.27
Bridge maintenance			619,231.23
Ferry maintenance and operation-			
Lytton Ferry		166,997.71	
North Bend Ferry		288,000.00	454,997.71
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0120 - Minor Betterments,			
-Hope Yard improvements	50,486.07		
-Miscellaneous	132,491.73	182,977.80	
C-0122 - Minor Betterments, miscellaneous		31,351.46	
C-0123 - Minor Betterments, miscellaneous		13,998.21	
C-0126 - Minor Betterments, miscellaneous		47,739.02	
C-0127 - Minor Betterments,			
-Botannie Road, reconstruction	52,248.78		
-Highway 5,shouldering	59,384.38		
-Miscellaneous	165,278.01	276,911.17	
C-0128 - Minor Betterments,			
-Ashcroft area, miscellaneous	74,971.61		
-Goldbridge area, miscellaneous	65,393.19		
-Lillooet area, miscellaneous	118,631.66	258,996.46	

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Roads - continued:			
Day Labour			
C-0270 - Gunn Lake Road, construction and landscape		9,642.50	
C-0472 - Princeton area, miscellaneous roads, upgrading(see also Boundary-Similkameen)		53,765.29	
C-0475 - Princeton-Summerland Road, construction		119,992.91	
C-0476 - Meadow Creek Road, (Kamloops to Logan Lake)construction		348,680.00	
C-0823 -Trans Canada Highway 1 at Lillooet,road base repair and pavement patching		99,693.40	
C-0824 - Highlands Valley Road, construction		43,330.83	
C-0825 - Lillooet Goldbridge Road, gravelling		59,950.39	
C-1474 - Hop Farm, Lillooet area, paving		30,000.00	
C-1776 - Highway 3,Hope to Princeton, extra lanes		34,280.66	
C-4170 - Duffey Lake Road,gravelling and realignment		74,982.84	
D-1552 - Rest area upgrading		42,123.24	
D-1553 - Rest area upgrading		5,000.00	
N-0371 - Guardrail installation		31,800.00	
N-0378 - Guardrail installation		111,973.69	
N-0379 - Guardrail installation		39,641.96	
W-0344 - Fencing Schedule 2 Highways		8,983.80	
W-0348 - Fencing Schedule 2 Highways		60,512.00	
W-0349 - Fencing Schedule 2 Highways		100,000.00	
W-0350 - Fencing Schedule 2 Highways		101,775.14	2,188,102.77
Construction Branch:			
Project C-3760 - Coquihalla Highway, Nicolum Creek to Peers Creek (3.0 miles)		77,800.92	
C-4370 - Lillooet access road, including construction of metal bin retaining walls and protection of railway wye		5,247.45	
C-4477 - Southern Trans Provincial Highway 3, Nicolum Creek-West Boundary Manning Park, construction mile 7.55 to mile 17.00 (8.67 miles)		4,223,337.41	
C-4478 - Coquihalla Highway,Boston Bar Creek Summit to Dry Gulch, construction 44.2km to 48.7km (4.5km)		1,910,293.67	6,216,679.45
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Aberdeen Mine Road within Nicola-Mameet I.R.1 K.D.Y.D.		5,682.94	
-Cemetery Road within LS5,6,1,12 and 13 Section 11 Township 5 R26 W6M		3,237.46	
-Enderby Mabel Lake Road 74 through part S.E.1/4 Sec.3 Tp 19, 4 7 and Frac.L5 15 and 16,Sec.24 Tp 18, R7 W6M K.D.Y.D.		1,500.00	

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office - continued:			
Legal Surveys - Project L-0099			
-Gunn Lake Road West 90-N.Bdy. L6485 to E.Bdy.L4823 L.D.		5,674.98	
-Liard Highway, Petitot River to Yukon Bdy.		2,131.04	
-Lillooet, Cache Creek Highway 12B through D.L.'s 536 and 888 Lillooet District		17,357.06	
-Southern Trans Provincial Highway S.Bdy.D.L.906 to D.L.400 S.D.Y.D.		7,329.60	
-Statutory right-of-way plan for highway Lillooet Bridge approaches		1,662.63	
-Through Lot 26 Plan 12018 D.L.133 K.D.Y.D. (drainage easement)		205.04	44,780.75
Bridges and Ferries:			
Day Labour			
Project B-1442 - Lytton Bridge, repairs to abutments and piers		60,449.44	
B-1443 - Potatosillihee Bridge, construct detour		180.75	
B-1667 - Coalmont Bridge, replacement of failed Howe Truss with temporary Bailey structure		51,840.60	112,470.79
Bridge Branch:			
Project B-0609 - Eleven Mile Creek Bridge and Nicolum Creek Bridge, Southern Trans Provincial Highway 3, 4 laning		177,841.67	
B-1358 - Bonaparte River Bridge, Trans Canada Highway, improvements		464.28	178,305.95
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-Highland Valley Road from Merritt District Bdy. 68.2km to Motor Vehicle Trailer Court 85.5km	74,400.40		
-Highway 12B sections in the Sallus Creek to the junction of Highway 97, Lillooet main Street and bridge approaches	280,689.32		
-Meadow Creek Road to Logan Lake 22.5km to 48.4km 25.9km	311,051.41		
-Miscellaneous sections 17km-71.8km	211.62	666,352.75	
S-0085 - Miscellaneous drum mix paving,			
-Highway 5, top of Hamilton Hill to Aspen Grove 23.5km	505,283.49		
-Lillooet Airport	1,323.72	506,607.21	
S-0652 - Schedule I: Evergreen Drive and Cheam Avenue, Agassiz (0.542km) Schedule II: Highway 9, north of Agassiz-Rosedale Bridge (1.1km) Schedule III: Highway 1 and miscellaneous Streets in Yale (4.03km) (see also Chilliwack)		60,294.04	
S-1069 - Highway 1, Cache Creek to Loon Lake Road section from Oregon Jack to Ashcroft Manor (26.5km) (see also Cariboo)		1,302,015.85	

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch - continued			
S-0085 - Miscellaneous drum mix paving,			
S-1459 - Highway 5 Douglas Lake Road to Merritt Highway District Boundary (16.1km) (see also Kamloops)		455,912.78	
S-1549 - Highway 1,Thompson Canyon to Spences Bridge (24.89km)		1,135,593.81	
S-1574 - Highway 1 and 7, Chilliwack, Hope and Agassiz areas, intermittent paving (11.8km)(see also Chilliwack)		288,657.55	
S-1687 - Highway 1-Boston Bar-Jackass Mountain, intermittent Boston Bar-Rosedale		2,086.90	4,417,520.89
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-4 Mile Corner-Nicolum Creek, Highway 3		21,289.71	
-Ashcroft, First Avenue from Thompson River Bridge to C.P.R. Crossing		294.00	
-Fraser River Crossing at Lillooet		25,365.19	
-Highway 1, South of Yale		20,580.33	
-Highway 3, Rhododendron Flats		12,070.44	
-Highway 5, Merritt-Kamloops		142,255.17	
-Highway 8 from Spences Bridge to Merritt		3,715.00	
-Hope Princeton-Whipsaw Creek revision		4,294.00	
-Hope-Merritt (Coquihalla)		235,609.22	
-Kamloops Highland Valley		60,516.29	
-Merritt to Kamloops		9,793.00	
-Minor road surveys		716.00	
-North Bend Bridge site-Boston Bar		33,716.70	
-North approach Hope Bridge		15,630.09	
-Route 8, Merritt-Spences Bridge		29,658.44	
-Southern Trans Provincial Highway (truck lanes) from Hope to Princeton		1,162.27	
-Southern Trans Provincial Highway 3, 47-48km		5,354.00	
-Southern Trans Provincial Highway 3, 95km-101km		451.00	
-Survey site plan for bin wall installation C.P.R. encroachment at Shaw Springs		19,296.52	
-Texas Creek, Hope		13,063.80	
-Trans Canada Highway 1 Oregon Jack-north Ashcroft junction		2,566.00	
-Trans Canada Highway 1-Cache Creek-D.L.8(Lillooet District Bdy.)		698.00	
-Trans Canada Highway, Flood-Haig (via Hope)		20,239.46	
-West Boundary Manning Park to Nineteen Mile Creek		10,241.44	688,576.07
Traffic Branch:			
Project E-0600 - Route 1 at Route 12 and Route 1 at Rancherie Road,Lytton, lighting and flashing beacon installations			20,170.77
Highway Safety Branch:			
Project C-0203 - Highway safety measures, intersection improvements, left turn slots, Route 1 at King subdivision, Lytton			28,511.00

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-8 Merritt to Spences Bridge Road		2,850.00	
-Blakeburn Road 9		2.00	
-Coldwater Road 7		1,775.00	
-Coquihalla Highway, Nicolum Creek to Peers Creek		3,208.72	
-East Lillooet Road 76		9,590.00	
-Gravel pits		5.00	
-Highland Valley Road		930.00	
-Highway 5		1.00	
-Hoath Road 316		5,950.00	
-Jones Road 198		2.00	
-Kawkawa Lake Road		500.00	
-Lillooet-Cache Creek Highway 12B		22,351.00	
-Mamit Lake Road		1.00	
-Meadow Creek Road 178		35,740.00	
-Nicolls Subdivision Road 290		3.00	
-Old Cariboo Highway		35,703.98	
-Oregon Jack Indian Reserve 5 to Cache Creek		22,000.00	
-Relocation of Thynne Creek Bridge,Coalmont Road 14		267.00	
-Road 40		1.00	
-Southern Trans Provincial Highway 3, Similkameen Falls		20,000.00	
-Sunshine Valley Road 76		1.00	
-Trans Canada Highway,Wahleach Power Station-Jones Creek		89,703.23	
-Whitney Road 201		1.00	250,585.93
Total, Yale-Lillooet Electoral District			$26,694,164.50

REPORT OF THE DIRECTOR OF AIR SERVICES

P.S. Perry

Air ambulance and transportation of Government personnel were the main requirements provided by the Air Services Branch during the 1982/83 fiscal year.

These activities were carried out by a fleet of four Cessna Citation aircraft and two Beechcraft A-200 aircraft based at Victoria International Airport. During the first four months of the fiscal year, the Branch also operated one Victoria based Otter aircraft and one Kamloops based Beaver. These were removed from the service on August 1, 1982.

A complete overhaul and modification program was approved for the three Cessna Citation 500 aircrft and a contract ws awarded to Innotech Aviation of Vancpuver, B.C. The program required each aircraft to be out of service for a period of three months. Work on the first Citation began June 21, 1982 and the final aircraf was completed March 28, 1983.

The photography role of the two Beechcraft A-200 aircraft was eliminated in the spring of 1982 and the aircraft were then used for personnel transportation to allow greater use of the Citation aircraft for air ambulance work.

The total of air ambulance flights was 1,359 compared to 675 operated in the 1981/82 fiscal year. This represents increase of 101.3%.

There were 6,460.5 aircraft flying hours logged by the Branch during the past year with 3,405.3 of these devoted to air ambulance flights and 2,170.3 hours recorded for transportation flights. The total number of passengers flown was 10,615.

The Provincial Government's restraint program introduced during the fiscal year resulted in the reduction of the scheduled flight service between Victoria/Vancouver/Victoria to ten round trips per week effective October 18, 1982, from the previous 26 round trips per week. An extra late evening flight is added as required when the Legislature is in session. The scheduled flight service operated with an average load factor of 50.95% in the 82/83 fiscal year.

The restrictions and control of non-scheduled flights for passengers other than cabinet ministers continued in effect during the year and these flights were minimal.

Charge-back recoveries for transportaion flights totalled $478,871 for the fiscal year. This reflects a decrease of $244,511 from the 81/82 year due to the decrease in the number of transportation flights operated.

The Travel Recording Centre issued 30,244 travel warrants to public service employees for both commercial and government aircraft travel.

REPORT OF THE DIRECTOR OF PROPERTY SERVICES

A.C. Brown

The 1982/83 fiscal year was a turnaround from the previous year, in that settlements totalled 630. Three claims were settled by arbitration and 2,354 were still open and under negotiations.

Expenditures on acquisition of highway rights of way and other properties required by the Ministry totalled $22,219,816.42.

A total of 631 rights of ways were established as highway by publication in the British Columbia Gazette and a total of 117 closures were made by similar procedure.

The Branch arranged for the disposal of 83 parcels surplus to highway requirements under the Ministry's statute and transferred a further 73 parcels to the Ministry of Lands, Parks and Housing.

A number of settlements were affected with Indian Bands as a direct result of our Indian Research section.

REPORT OF THE MANAGER OF BUILDING SERVICES

D. Grey

Due to financial restraints, the five-year plan for rebuilding of yards and buildings has been interrupted. The result of this is that progress on the upgrading and replacement program has been slowed.

The following projects were designed, tendered and supervised completely by Building Services:

- Completion of the sprinkler and water systems, George Massey Tunnel
- Two weigh scale stations, Parksville
- Two-way weigh scale station, Vernon
- Renewal of scale, pit and platform, weigh scale station, Kelowna
- Communication tower, George Massey Tunnel
- Relocation of ferry terminal building, Albion Ferry

Full planning service including preliminary designs and functional programs leading to contract awards for the following:

- Regional garage, Prince Geoge
- Sign shop and storage building, Gibsons
- Combined laboratory, Terrace
- District garage, Hope
- New yard and District garage, Prince Rupert
- New yard and buildings, Hagensborg (to replace Bella Coola yard)
- Motor license office, Surrey
- New District office, Penticton
- Fencing and improvements, new Regional yardsite, Kamloops
- Acquisition of new District yardsite, Kelowna
- New District office, Dease Lake
- New bunkhouse, Mt. Lemoray
- Extension of assembly building, 100 Mile House
- Planning and acquisition, new yard, Burnaby
- Planning, new yard, Abbotsford
- Acquisition of new yard, Cultus Lake
- New washdown, pump island and oil store, Port Alberni
- Temporary shop, Lardeau

Planning was finalized for the undernoted projects:

- New yard and buldings	Yahk
- Bunkhouse	Kootenay Pass
- New District office	New Denver
- New District office	McBride
- Yard Improvements	Lasqueti Island
- New combined laboratory	Burnaby
- Reorganization Ministry space	Headquarters

As well as the more major projects listed above, about 250 minor projects were planned, priced and carried out during the year, ranging from yard lighting and fencing to additions and renovations.

The first phase of computerizing the complete inventory of 232 250 square metres of Ministry-occupied space has been completed, including both hardward and software. The next phase, which will encompass bugetary, financial control and engineering data is now under way.

REPORT OF THE SENIOR INFORMATION OFFICER

R.J. Baines

The Information Services Branch consists of the Senior Information Offier, two Public Information Officers and one full-time and two part-time stenographers. A third Public Information Officer, atached to Region 1 in Burnaby, reports to a Senior Information Officer in connection with the Ministry's house magazine Road Runner & Carrier and certain other functions involving the media in the Vancouver and Lower Mainland areas.

The 32-page issues of the Road Runner and Carrier were produced and distributed, each with a run of 8,500 copies. The remaining two issues were suspended by the government as a fiscal restraint measure, along with other Ministries' "news letters" and certain other publications. However, because of the value of the R.R. & C. for employee morale and communication, and because its 20-year existence makes it unique, the Ministry has asked that publication be permitted to resume in the new fiscal year.

During the fiscal year the Branch wrote and arranged the distribution of 395 news releases. Some of these are sent to the local media in particular regions of the Province, others to the legislative press gallery and others go out to the government core list to all media in the Province.

The Senior Information Officer edited and supervised production of the 1981/82 Annual Report which, in accordance with government restraints on publications, was reduced to 370 pages from the previous edition of 500 pages. Further cuts are expected to be made in the 1982/83 edition. About 150 copies of the Minister's "Highway Branch Reports and Statistical Data 1982/83" were edited and produced for distribution to M.L.A.'s and the media.

The Senior Information Officer handled about $100,000 in advertising for the Ministry, two thirds of this for a special winter "snow tire" campaign in radio and newspapers. The rest included a Victoria Day weekend safety campaign on radio and a number of newspaper ads for road and bridge closures, official openings and other public information messages.

The Victoria office handled an average of 50 phone calls a week from the public and the press and from other ministries. Considered the main media contact for the Ministry, the Branch receives phone calls from many weekly and daily newspapers and radio stations in small communities in various parts of British Colulmbia.

Along with its other duties the Branch assisted the Ministry of Tourism in the production of the Provincial Government road map by obtaining information from all the Highway Districts in the Province and forwarding suggested changes to the Ministry of Tourism for incorporation into the new map. This is an annual function which helps to keep the map up to date and improve accuracy.

REPORT OF THE CONTRACT DOCUMENTS OFFICER

R.A. Fisher

The 1982/83 fiscal year started off rather slow but the pace quickened and by the end of the year 146 contracts had been advertised increasing the 5 year production average from 139 to 141.8. Of the 146 contracts advertised, 52 were paving projects, 37 were bridge projects, 23 grading projects and the remainder comprised gravel crushing for District use, ferry projects for both the Ministry and B.C. Ferry Corporation, and other miscellaneous projects including landscaping. Projects were widely spread across the Province with some emphasis directed towards the Northeast Coal Development transportation route.

Last year it was reported that the Diazo White Plan Printer was replaced by a more efficient machine. The mechanical and structural defects together with the increased volume necessitated an early retirement of this machine. The supplier accepted responsibility and absorbed a good portion of the replacement cost of an even better machine.

The production of the Branch, inclusive of print shop and library continues to grow and is enhanced by the advancement in the use of word processing despite the fact that expansion throught the updating of equipment has been curtailed by the Government's restraint policy.

The current economic recession has been very pronounced in the number of prime and sub-contractors acquiring documents. Sales have almost doubled in this fiscal year requiring a higher production rate of such documents for distribution.

CONTRACT STATISTICS

SUMMARY OF ELECTORAL DISTRICTS OF GRADING, PAVING, BRIDGE, FERRY-LANDING, FERRY, CRUSHED GRAVEL, AND MISCELLANEOUS CONTRACT PROJECTS COMPLETED OR IN PROGRESS

Electoral District	Project		
Atlin	Bridge:		
		B-1102-1	Substructures, Greenville Bridge No. 2735, Greenville Access Road
Boundary-Similkameen	Paving:		
		S-1686	Asphalt Surfacing 1983-84: Intermittent paving on Summerland to Peachland section of Okanagan Highway 97 (16.96 km)
	Bridge:		
		B-0735	Eckhardt Avenue Bridge - Improvements No. 1343, Eckhardt Avenue over the Okanagan River at Penticton
Burnaby-Edmonds	Miscellaneous:		
		J-1403C	Landscape Maintenance, 1st Avenue Interchange to McCallum Road Interchange on Trans Canada Highway 1, Vancouver
Burnaby-Willingdon	Roads:		
		C-3997-0003	Paving: Greenall Road to Brynne Road on Marine Way (2.86 km)
	Miscellaneous:		
		J-1403C	Landscape Maintenance, 1st Avenue Interchange to McCallum Road Interchange on Trans Canada Highway 1, Vancouver
Cariboo	Paving:		
		S-1069	Cache Creek to Loon Lake Road on Highway 97 and Oregon Jack to Ashcroft Manor on Trans Canada Highway 1 (26.5 km)
		S-1454	Wingdam to Bowron Lake Road on Barkerville Highway 26 (42.0 km)
		S-1573	Intermittent Milling and Paving on Cariboo Highway 97 Barkerville Road to Plett Road (6.25 km)
		S-1588	Intermittent Paving, Highway 97 to Fraser River Bridge on Highway 20 (4.5 km)
	Bridge:		
		B-1115-#1	General Construction - Baker Creek Bridge No. 1190, Improvements, Marsh Drive, Quesnel
Central Fraser Valley	Miscellaneous:		
		D-3714-3	Landscape Development Bradner Safety Rest Area on Trans Canada Highway 1, Matsqui. Cancelled
Chilliwack	Paving:		
		S-1405	Sumas Canal to Chilliwack River Road section of Trans Canada Highway 1 and Yale Road West (20.63 km)
		S-1574	Trans Canada Highway 1 and Highway 7, Intermittent sections in Hope and Agassiz Areas (11.8 km)
Columbia River	Miscellaneous:		
		D-1124-1	Landscape Development of Athalmer Overpass at Invermere
Comox	Bridge:		
		B-1391-2	Terminal Revisions: Campbell River and Quathiaski Cove Ferry Terminals. Cancelled
	Miscellaneous:		
		C-2901-0002	Curb Protection and Landscape Revegetation Lantzville to Craig's Crossing, Highway 19

CONTRACT STATISTICS—*Continued*

Electoral District			Project
Coquitlam - Moody	Roads:	C-1148-0001	Paving - Colony Farm Overhead approach roads, Lougheed Highway Connector. Intersection No. 4 to Lougheed Highway and West Ramp Approach (0.63 miles)
	Miscellaneous:	J-1404C	Landscape Maintenance - Cape Horn Interchange to Port Mann Bridge on Trans Canada Highway 1, Vancouver
Delta	Roads:	C-1150	Supply of dredged materials Highway 99 to Queensborough Bridge, Fraser River Crossing
		C-1593	Fraser River Crossing (Annacis Island) Sand island, Construction and Dredging. Withdrawn
	Bridge:	B-1666	Pile Driving and Load Testing on Highway 99 to Queensborough Bridge
	Ferries:	T.F.M. 192-4	Installation of a Fire Alarm System at Tsawwassen Ferry Terminal. Cancelled, reverted to Day Labour
Dewdney	Grading:	C-1690	Reconstruction: Haney to Albion Junction (240th Street) Section of Lougheed Highway 7 (4.168 km) and Reconstruction of Kanaka Creek Bridge
	Bridge:	B-1709	Mission Overhead No. 2736, Abbotsford - Mission Highway, Contract No. 1 - General
Esquimalt-Port Renfrew	Paving:	S-1567	Vancouver Island West Coast Road (4.0 km)
Kamloops	Roads:	C-0916	Reconstruction - Little Fort - Phinetta Lake Section Highway 24 (5.24 miles)
		C-1562-0001	Paving - Kamloops Weigh Scale to C.N.R. Station Road on Highway 6 (3.1 km)
		C-1562-0002	Crushed Granular Surfacing in Stockpile at Todd Hill Pit No. 2110 in Kamloops Highway District
	Paving:	S-1459	Douglas Lake Road to Merritt Highways District Boundary on Highway 5 (16.1 km)
		S-1568	Junction Merritt Highway 5 to Campbell Creek Bridge on Trans Canada Highway 1 (6.9 km)
Kootenay	Roads:	C-1312	Construction of Sparwood to Cummings Creek section of Elk Valley Road (4.182 km)
	Bridges:	B-1306	Contract No. 1 - General construction Elkford Spur Overhead #2752, Michel Prairie Bridge #210, Elk Valley Road
		B-1307	Contract No. 1 - General construction Sparwood Overhead #2750, Michel Creek Bridge #2751, Elk Valley Road
Langley	Miscellaneous:	J-1403C	Landscape Maintenance, 1st Avenue Interchange to McCallum Road Interchange, Trans Canada Highway 1, Vancouver

CONTRACT STATISTICS—*Continued*

Electoral District			Project
Mackenzie	Ferries:		
		B-1139-2	Turning Dolphin and Winch Repairs - Westview and Blubber Bay Ferry Terminals
	Gravel Crushing:		
		M-1156-0011	Supply to Savary and Keats Island, Gibson
Maillardville-Coquitlam	Paving:		
		S-1569	Trans Canada Highway 1 in North Vancouver and Coquitlam area (6.85 km)
Nanaimo	Paving:		
		S-1456	Grinding and Paving Trans Canada Highway 1 and Highway 19 in Nanaimo area (6.1 km)
	Ferries:		
		T.F.M. 143-6	Installation of Fire Protection System and Domestic Water Supply at Departure Bay Ferry Terminal
		T.F.M. 143-7	Foot Passenger Walkway, Departure Bay Ferry Terminal
	Miscellaneous:		
		C-2901-0002	Curb Protection and Landscape Revegetation Lantzville to Craig's Crossing, Highway 19
Nelson-Creston	Paving:		
		S-0084-3904	Crushed Granular Graded Seal Aggregate in Stockpile, Husband Pit - Creston
	Gravel Crushing:		
		M-1156-0007	Lemon Creek pit 3115B - Nelson
New Westminster	Roads:		
		C-1150	Supply of dredged material, Highway 99 to Queensborough
		C-1593	Fraser River Crossing (Annacis Island) Sand Island Construction and Dredging. Withdrawn
	Bridges:		
		B-1420	Pattullo Bridge Retrofitting South Approach Bearing Replacement at Pier 9 and Bent 10
		B-1666	Pile Driving and Load Testing on Highway 99 to Queensborough Bridge
	Miscellaneous:		
		J-1403C	Landscape Maintenance, 1st Avenue Interchange to McCallum Road Interchange on Trans Canada Highway, Vancouver
North Island	Gravel Crushing:		
		M-1156-0008	Supply and deliver - Courtenay
North Peace River	Paving:		
		S-1750	Asphalt Surfacing 1983-84, Highway 97 Aalska Highway, North Kiskatinaw to Road 269 (39.4 km)
	Gravel Crushing:		
		M-1156-0017	Fort Nelson Pit No. P4422
North Vancouver-Capilano	Paving:		
		S-1569	Trans Canada Highway 1 in North Vancouver and Coquitlam area (6.85 km)
	Miscellaneous:		
		J-1103-C	Landscape Maintenance, Horseshoe Bay to Lynn Valley Interchange on Trans Canada Highway 1 (17 km)

CONTRACT STATISTICS—*Continued*

Electoral District	Project		
North Vancouver - Seymour	Paving:		
		S-1569	Trans Canada Highway 1 in North Vancouver and Coquitlam Area (6.85 km)
	Bridge:		
		B-1714	Seymour River Bridge No. 2282 Mount Seymour Parkway, Contract No. 1 - General
	Miscellaneous:		
		J-1103C	Landscape Maintenance Horseshoe Bay to Lynn Valley Interchange on Trans Canada Highway 1 (17 km)
Okanagan - North	Paving:		
		S-1455	Swan Lake Junction to Schweb's Bridge on Highway 97 (18.4 km)
		S-1533	Hamilton Flats to Creighton Valley Road Section; Highway 6, east of Lumby (9.3 km)
	Gravel Crushing:		
		M-1156-0013	Campbell Pit No. 2305, Vernon
Okanagan - South	Paving:		
		S-1686	Asphalt Surfacing 1983-84, Intermittent Paving on Summerland to Peachland Section of Okanagan Highway 97 (16.96 km)
	Bridges:		
		B-0692-1	Anchor Cable Replacement, Okanagan Lake Bridge, Highway 97
Prince George - North	Bridges:		
		B-1400	General Construction - Foothills Boulevard Bridge No. 2764 in City of Prince George
	Gravel Crushing:		
		M-1156-0003	66 Mile Pit #4122, Prince George
		M-1156-0004	38 Mile Pit #4188, Prince George
Prince George - South	Paving:		
		S-1679	Asphalt Surfacing 1983-84, Nechako River Crossing Bridge approaches (7.5 km)
		S-1722	Asphalt Surfacing 1983-84, Yellowhead Highway 16 East, Upper Fraser Road to Bowron River Bridge (37.8 km)
	Bridge:		
		B-1400	General Construction - Foothills Boulevard Bridge No. 2764 in City of Prince George
	Miscellaneous:		
		D-1547-2	A Proposal to Design and Construct Washroom Facility at Mt. Terry Fox Rest area, Yellowhead Highway 16 at Tete Jaune Cache
Richmond	Bridge:		
		B-1666	Pile Driving and Load Testing on Highway 99 to Queensborough Bridge
Saanich & The Islands	Ferries:		
		T.F.M. 191-2	Electrical: Village Bay Ferry Terminal, Mayne Island
	Gravel Crushing:		
		M-1156-0006	Supply & Deliver - Saanich
Shuswap - Revelstoke	Paving:		
		S-1455	Swan Lake Junction to Schweb's Bridge on Highway 97 (18.4 km)
		S-1590	Miscellaneous Paving, Craigellachie to Revelstoke, Trans Canada Highway 1 (9.1 km)

CONTRACT STATISTICS—*Continued*

Electoral District	Project		
Shuswap - Revelstoke (cont'd)	Bridge:	B-0551	General Construction, Enderby Bridge No. 311 on Mabel Lake Road
	Gravel Crushing:	M-1156-0005	McTavish Pit #2278 - Salmon Arm
	Miscellaneous:	C-1309	Construction of Weigh Scale in Highway 97 Median North of Vernon
Skeena	Bridge:	B-1076	General Construction, Kasiks Overhead No. 2249, Yellowhead Highway 16
	Gravel Crushing:	M-1156-0009	Tatlow Pit #5402A, Smithers
		M-1156-0010	Cronin Pit #5410B, Smithers
South Peace River	Roads:	C-0747	Construction: Gwillim Lake to Meikle Creek, North East Coal Development Access Road (4.8 km)
		C-1138	Construction: Meikle Creek to Bullmoose, North East Coal Development Access Road (9.24 km)
	Paving:	S-1303	Paving Junction of Highway 97 to Martin Creek section of North East Coal Development Access Road (23.0 km)
		S-1750	Asphalt Surfacing 1983-84, Highway 97, Alaska Highway, North Kiskatinaw to Road 269 (39.4 km)
	Bridges:	B-0975-1	General Construction of the Bullmoose Flats Bridge #2707 and Bullmoose Creek Bridge #2780, North East Coal Development Access Road
		B-0977-1	General Construction of Murray River Bridge #2782 - North East Coal Development Access Road
		B-0978-1	General Construction of Flatbed Creek Bridge #2783 and Wolverine River Bridge #2781 on North East Coal Development Access Road
Surrey	Bridge:	B-1420	Pattullo Bridge Retrofitting South Approach Bearing Replacement at Pier 9 and Bent 10
Vancouver South	Miscellaneous:	J-1401C	Landscape Maintenance, Knight Street Bridge Interchange, Vancouver
		J-1402C	Landscape Maintenance, Highway 99 at New Westminster Highway, Cambie Road, No. 5 Road, and north and south ends Oak Street Bridge Vicinity, Vancouver
West Vancouver-Howe Sound	Bridges:	B-1096-1	General Construction - Culliton Creek Bridge #2789 and approaches, Garibaldi Highway 99 (1.015 km)
		B-1145	General Construction, Cheakamus River Bridge #597, 19 Mile Creek Bridge #7844, Squamish Valley Road and Valley Drive
	Ferries:	T.F.M. 225-1	Double Decking Berths 2 and 3 and Concrete Transfer Deck at Horseshoe Bay Ferry Terminal
	Miscellaneous:	J-1103C	Landscape Maintenance Horseshoe Bay to Lynn Valley Interchange on Trans Canada Highway 1 (17 km)

CONTRACT STATISTICS—*Continued*

Electoral District			Project
Yale - Lillooet	Paving:		
		S-1069	Cache Creek to Loon Lake Road on Highway 97 and Oregon Jack to Ashcroft Manor on Trans Canada Highway 1 (26.5 km)
		S-1459	Douglas Lake Road to Merritt Highways District Boundary on Highway 5 (16.1 km)
		S-1549	Thompson Canyon to Spences Bridge on Trans Canada Highway 1 (23.29 km)
		S-1574	Trans Canada Highway 1 and Highway 7 Intermittent Sections in Chilliwack, Hope and Agassiz Areas (11.8 km)
		S-1687	Asphalt Surfacing 1983-83, Trans Canada Highway 1, Intermittent sections between Lake of the Woods and Jackass Mountain (23.96 km)
	Bridge:		
		B-1358	General Construction - Boneparte River Bridge No. 1158 Improvements on Trans Canada Highway 1
	Gravel Crushing:		
		M-1156-0016	Siwash Pit No. P2476

TENDERS RECEIVED AND CONTRACTS AWARDED

Roads

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-0747 - Construction: Gwillim Lake to Meikle Creek Sta. 9+97 to Sta. 58+100 (4.80 km)		
Attachie Construction Ltd.	1,590,748.60	Awarded
Price Bros. Contractors Ltd.	1,660,633.40	
Geddes Contracting Co. Ltd.	1,722,868.40	
Edco Construction Co.	1,874,912.88	
Miller Contracting Ltd.	1,878,060.20	
Goodbrand Construction Ltd.	1,897,406.00	
Nu-Road Contracting Ltd.	1,920,107.95	
Tac Logging Ltd.	2,146,372.96	
Dawson Construction Ltd.	2,287,847.02	
Emil Anderson Construction	2,874,369.20	
View Construction Ltd.	3,936,280.84	
Project C-0916 - Reconstruction: Little Fort to Phinetta Lake Section Highway 24 (5.24 km)		
Loram Construction Ltd.	7,058,912.00	Awarded
Dawson Construction Ltd.	7,493,743.00	
Miller Contracting Ltd.	8,395,995.00	
Geddes Contracting Co. Ltd.	8,718,594.00	
View Construction Ltd.	8,833,359.00	
Emil Anderson Construction Co. Ltd.	9,489,345.00	
Miann Construction Co. Ltd.	9,791,301.05	
Peter Kiewit Sons Co. Ltd.	11,529,993.00	
Tonto Construction Ltd.	13,168,259.00	
Project C-1138 - Construction: Meikle Creek to Bullmoose, Sta. 58+100 to Sta. 150+42.633 (9.24 km)		
Miller Contracting Ltd.	2,742,593.04	Awarded
Edco Construction Co.	2,832,389.88	
Nu-Road Contracting Ltd.	2,839,695.50	
Geddes Contracting Co. Ltd.	2,939,057.50	
Attachie Construction Ltd.	3,101,542.90	
Tabor Lake Logging Ltd.	3,199,441.24	
Edgworth Construction Ltd.	3,671,862.30	
General Enterprises	3,874,646.44	
Dawson Construction Ltd.	3,995,328.00	
View Construction Ltd.	4,911,862.64	
Emil Anderson Construction Co. Ltd.	5,515,687.00	
Project C-1148-0001 - Paving: Colony Farm Overhead Approach Roads, Lougheed Highway Connector, Intersection No. 4: To Lougheed Highway and West Ramp Approach (0.63 miles)		
Columbia Bitulithic Ltd.	239,385.70	Awarded
Jack Cewe Ltd.	239,903.00	
Globe Excavating Ltd.	256,427.50	
Winvan Paving Ltd.	282,240.65	
B.A. Blacktop	320,495.85	
Project C-1150 - Fraser River Crossing: Highway 99 - Queensborough Bridge: Supply of Dredged Material		
Centennial Dredging and Sand Ltd.	1,768,642.00	Awarded
Dillingham Construction Ltd.	2,042,314.40	
Sceptre Dredging Ltd.	2,130,949.10	

Roads - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-1312 - Elk Valley Road Reconstruction: Sparwood to Cummings Creek - Sta. 0+00 to Sta. 31+91 6BK = Sta. 0+60 AH to STA. 10+50 (4.182 km)		
Nu-Road Contracting Ltd.	2,366,880.00	Awarded
Inland Contracting and Sweeping Ltd.	2,801,374.70	
Tercon Contractors Ltd.	3,361,449.00	
Emil Anderson Construction Co. Ltd.	3,660,680.00	
Bel Construction Ltd.	3,799,973.00	
Edco Construction Co.	3,938,587.00	
Winvan Paving Ltd.	3,969,431.00	
Miller Contracting Ltd.	4,185,260.00	
Dawson Construction Ltd.	4,246,344.00	
H.B. Contracting Ltd.	4,960,038.86	
Loram Construction Ltd.	5,598,962.00	
Project C-1562-0001 - Highway 5 Paving on Kamloops Weigh Scale to C.N.R. Station Road (3.1 km)		
B.A. Blacktop Kamloops	397,480.20	Awarded
Dawson Construction Ltd.	408,828.00	
Columbia Bitulithic Ltd.	524,100.00	
Project C-1562-0002 - Crushed Granular Surfacing in Stockpile: Todd Hill Pitt No. 2110		
Ptarmigan Gravel Ltd.	62,250.00	Awarded
Inland Contracting and Sweeping Ltd.	77,200.00	
Pete's Developments Ltd.	84,250.00	
Hal Wold Contracting Ltd.	84,500.00	
Johnson's Trucking Western Ltd.	93,500.00	
D.M.J. Construction Ltd.	97,000.00	
Columbia Bitulithic Ltd.	99,500.00	
T.R. Crushing Ltd.	114,500.00	
Project C-1593 - Construction: Highway 99 Queensborough Bridge, Pier Protection Works and Dredging		
Fraser River Pile Driving Co. Ltd.	4,495,000.00	Withdrawn
Peter Kiewit Sons Co. Ltd.	4,887,648.00	
Sceptre Dredging Ltd.	5,640,000.00	
Dillingham Corp. Canada Ltd.	6,281,432.75	
Northern Construction Co. Ltd.	6,961,502.00	
Pitts Engineering Construction (A Div. of Bannister Const.)	7,922,375.00	
Project C-1690 - Reconstruction: Haney-Albion Junction (240th Street) Section of Lougheed Highway 7 (4.168 km) and Reconstruction: Kanaka Creek Bridge		
United Contractors Ltd.	3,011,351.90	Awarded
Goodbrand Construction Ltd.	3,050,622.00	
H.B. Contracting Ltd.	3,144,226.79	
Southwest Contracting Ltd.	3,153,056.67	
Miller Contracting Ltd.	3,342,517.00	
Coquitlam Excavating Ltd.	3,343,580.88	
Jack Cewe Ltd.	3,357,716.00	
Project C-3997-0003 - Paving: Marine Way: Greenall Road to Byrne Road (2.86 km)		
Jack Cewe Ltd.	421,241.50	Awarded
B.A. Blacktop (A corporate partnership)	425,617.80	
Columbia Bitulithic Ltd.	427,160.00	
United Contractors Ltd.	430,932.75	
Winvan Paving Ltd.	446,438.95	
Imperial Paving Ltd.	423,230.00	

Paving

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1069 - Highway No. 97: Cache Creek to Loon Lake Road, Highway 1, Section from Oregon Jack to Ashcroft Manor (26.5 km)			
H. Williamson Blacktop & Landscaping Ltd.		1,101,585.00	Awarded
LeDuc Paving Ltd.		1,198,027.50	
Columbia Bitulithic Ltd.		1,287,012.00	
Ocean Paving Ltd.		1,668,640.00	
Central Paving and Engineering Ltd.		1,752,535.00	
Project S-1303 - Junction Highway 97 to Martin Creek Section: Northeast Coal Development Road (23.0 km)			
Peters Bros. Paving (1981) Ltd.	Alternative A	965,300.00	Awarded
	Alternative B	No Bid	
Columbia Bitulithic Ltd.	Alternative A	1,017,550.00	
	Alternative B	1,026,150.00	
H. Williamson Blacktop & Landscaping Ltd.	Alternative A	1,054,500.00	
	Alternative B	1,149,100.00	
Central Paving & Engineering Ltd.	Alternative A	1,064,590.00	
	Alternative B	1,172,090.00	
LeDuc Paving Ltd.	Alternative A	1,222,700.00	
	Alternative B	1,288,200.00	
Ocean Paving Ltd.	Alternative A	1,242,840.00	
	Alternative B	1,378,310.00	
Midvalley Construction Co.	Alternative A	1,317,790.00	
	Alternative B	n/a	
West Coast Paving Co. Ltd.	Alternative A	1,582,720.00	
	Alternative B	n/a	
A.C. Paving Ltd.	Alternative A	1,973,893.46	
	Alternative B	n/a	
Project S-1405 - Asphalt Surfacing 1982/83: Paving Sumas Canal to Chilliwack River Road section of Trans Canada Highway 1 and Yale Road West (20.63 km)			
Columbia Bitulithic Ltd.		1,076,826.00	Awarded
Imperial Paving Ltd.		1,116,729.25	
H. Williamson Blacktop & Landscaping Ltd.		1,323,235.00	
LeDuc Paving Ltd.		1,707,537.00	
Project S-1454 - Asphalt Surfacing 1982/83: Wingdam to Bowron Lake Road on Barkerville Highway 26 (42.0 km)			
Central Paving & Engineering Ltd.		1,203,480.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.		1,287,950.00	
LeDuc Paving Ltd.		1,289,100.00	
Columbia Bitulithic Ltd.		1,326,740.00	
Ocean Paving Ltd.		1,456,469.90	
Project S-1455 - Asphalt Surfacing 1982/83: Swan Lake Junction to Schweb's Bridge Highway 97 (18.4 km)			
LeDuc Paving Ltd.		789,494.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.		859,867.50	
Columbia Bitulithic Ltd.		868,701.00	
Project S-1456 - Asphalt Surfacing: Grinding and Paving: Highways 1 and 19 (6.1 km)			
Jack Cewe Ltd.		427,400.00	Awarded
Hub City Paving		430,620.00	
Mid Island Paving Ltd.		458,800.00	

Paving - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1459 - Asphalt Surfacing: Douglas Lake Road to Merritt Highway District Boundary, Highway 5 (16.1 km)		
Cantex Engineering and Construction Co. Ltd.	486,854.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	515,164.75	
LeDuc Paving Ltd.	532,826.00	
Winvan Paving Ltd.	573,222.71	
Columbia Bitulithic Ltd.	574,548.00	
Ocean Paving Ltd.	704,295.40	
Project S-1533 - Hamilton Flats to Creighton Valley Road East of Lumby, Highway 6 (9.3 km)		
H. Williamson Blacktop & Landscaping Ltd.	312,197.50	Awarded
Columbia Bitulithic Ltd.	369,867.00	
LeDuc Paving Ltd.	378,780.00	
Cantex Engineering and Construction Co. Ltd.	393,628.00	
Grandview Blacktop Ltd.	550,088.00	
Columbia Blacktop Ltd.	575,003.00	
Project S-1549 - Asphalt Surfacing 1982/83: Thompson Canyon - Spences Bridge, Trans Canada Highway 1 (23.29 km)		
Columbia Bitulithic Ltd.	923,664.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	976,305.75	
Ocean Paving Ltd.	1,056,022.50	
LeDuc Paving Ltd.	1,246,788.00	
Project S-1567 - Asphalt Surfacing 1982/83: Vancouver Island West Coast Road (4.0 km)		
Ocean Paving Ltd.	272,000.00	Awarded
Hub City Paving Ltd.	282,400.00	
Project S-1568 - Asphalt Surfacing 1982/83: Junction Merritt Highway 5 to Campbell Creek Bridge, Trans Canada Highway 1 (6.9 km)		
B.A. Blacktop	263,782.00	Awarded
Dawson Construction	305,154.00	
Project S-1569 - Asphalt Surfacing 1982/83: Trans Canada Highway 1 in North Vancouver and Coquitlam Area (6.85 km)		
Imperial Paving Ltd.	304,088.50	Awarded
B.A. Blacktop (A Corporate Partnership)	306,087.05	
Winvan Paving Ltd.	316,045.70	
Jack Cewe Ltd.	316,180.35	
Columbia Bitulithic Ltd.	331,555.00	
Project S-1573 - Intermittent Milling and Paving: between Junction of Barkerville Road and Plett Road, Cariboo Highway 97 (6.25 km)		
Columbia Bitulithic Ltd.	343,530.00	Awarded
Central Paving and Engineering Ltd.	386,240.00	
Project S-1574 - Asphalt Surfacing 1982/83: Intermittent Sections Chilliwack, Hope and Agassiz Areas, Highway 1 and 7 (11.8 km)		
Imperial Paving Ltd.	310,510.00	Awarded
Columbia Bitulithic Ltd.	334,265.00	
Ocean Paving Ltd.	354,925.00	
Winvan Paving Ltd.	367,225.00	

Paving - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1588 - Asphalt Surfacing 1982/83: Williams Lake District Highway 20, Intermittent Paving: Highway 97 to Fraser River Bridge (4.5 km)		
H. Williamson Blacktop & Landscaping Ltd.	409,400.00	Awarded
Winvan Paving Ltd.	460,960.00	
Central Paving and Engineering Ltd.	535,200.00	
Cantex Engineering and Construction Co. Ltd.	593,500.00	
LeDuc Paving Ltd.	596,000.00	
Columbia Bitulithic Ltd.	774,700.00	
Project S-1590 - Asphalt Surfacing 1982/83: Craigellachie to Revelstoke Miscellaneous Paving: Trans Canada Highway (9.1 km)		
Columbia River Paving Ltd.	298,300.00	Awarded
Columbia Bitulithic Ltd.	325,800.00	
Winvan Paving Ltd.	398,838.00	
LeDuc Paving Ltd.	484,970.00	
Project S-1679 - Asphalt Surfacing 1983/84: Nechako River Crossing Bridge Approaches (7.5 km)		
H. Williamson Blacktop & Landscaping Ltd.	605,210.00	Awarded
Central Paving and Engineering Ltd.	618,145.00	
Winvan Paving Ltd.	628,523.00	
LeDuc Paving Ltd.	666,336.00	
Grandview Blacktop Ltd.	770,829.52	
Columbia Bitulithic Ltd.	786,290.00	
Peter Kiewit Sons Co. Ltd.	917,950.00	
Project S-1686 - Asphalt Surfacing 1983/84: Intermittent Paving on Summerland to Peachland Section of Okanagan Highway 97 (16.96 km)		
Peters Bros. Paving (1981) Ltd.	554,020.20	Awarded
Cantex Engineering & Construction Co. Ltd.	588,990.68	
Midvalley Construction Co.	638,064.00	
Grandview Blacktop Ltd.	720,296.08	
H. Williamson Blacktop & Landscaping Ltd.	728,885.50	
Westlake Paving and Aggregates Ltd.	729,969.42	
LeDuc Paving Ltd.	754,776.00	
Columbia Bitulithic Ltd.	778,439.00	
Peter Kiewit Sons Co. Ltd.	943,630.00	
Project S-1687 - Asphalt Surfacing 1983/84: Trans Canada Highway 1, Intermittent Sections between Lake of Woods and Jackass Mountain (23.96 km)		
Columbia Bitulithic Ltd.	683,860.00	Awarded
Grandview Blacktop Ltd.	729,662.00	
LeDuc Paving Ltd.	799,040.00	
Winvan Paving Ltd.	846,241.60	
Midvalley Construction Co.	947,380.00	
H. Williamson Blacktop & Landscaping Ltd.	1,157,780.00	
Project S-1722 - Asphalt Surfacing 1983/84: Yellowhead Highway 16 East: Upper Fraser Road to Bowron River Bridge (37.9 km)		
H. Williamson Blacktop & Landscaping Ltd.	1,477,772.50	Awarded
Peter Kiewit Sons Co. Ltd.	1,486,595.00	
LeDuc Paving Ltd.	1,576,912.00	
Columbia Bitulithic Ltd.	1,664,145.00	
Central Paving & Engineering Ltd.	1,677,140.00	
West Coast Paving Co. Ltd.	1,741,082.00	
Midvalley Construction Co.	1,799,177.00	
Venture Paving Ltd.	1,898,279.70	

Paving - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1750 - Asphalt Surfacing 1983/84: Highway 97 - Alaska Highway: North Kiskatinaw to Road 269 (39.4 km)		
Rorison Enterprises Ltd.	1,854,120.00	Awarded
Peter Kiewit Sons Co. Ltd.	2,074,650.00	
Midvalley Construction Co.	2,198,236.00	
Venture Paving Ltd.	2,225,894.00	
West Coast Paving Co. Ltd.	2,280,559.50	
LeDuc Paving Ltd.	2,290,180.00	
Cantex Engineering & Construction Co. Ltd	2,455,350.00	
Columbia Bitulithic Ltd.	2,466,010.00	
Aero Asphalt Paving Ltd.	2,605,471.10	
Project S-0084-3904 - Crushed Granular Grade Seal Aggregate in Stockpile: Husband Pit, Creston		
H. Williamson Blacktop & Landscaping Ltd.	63,400.00	Awarded
L.R. Wyles Trucking Ltd.	130,520.00	
Enderby Gravel Products Ltd.	188,920.00	

Bridges

Project B-0551 - General Construction: Enderby Bridge No. 311 on Mabel Lake Road, Contract No. 1 - General		
Kenyon Construction Ltd.	1,716,202.00	Awarded
W.A. Stephenson Construction (Western) Ltd.	1,833,000.00	
Manning Construction Ltd.	1,859,003.00	
Braniff Construction Ltd.	1,883,950.50	
Hansa Construction Ltd.	1,905,792.00	
Goodbrand Construction Ltd.	2,034,353.00	
G.W. Carlson Construction Ltd.	2,081,650.00	
George Wimpey Canada Ltd.	2,097,543.90	
Dura Construction Ltd.	2,104,310.00	
P.C.L. Construction Ltd.	2,165,918.00	
Kingston Construction Ltd.	2,167,962.00	
Wheaton Construction Ltd.	2,251,150.00	
W.F.L. Constructors Ltd.	2,304,389.00	
Tonto Construction	2,331,585.00	
Interior Contracting Co. Ltd.	2,379,218.00	
H. Funk Excavating Ltd.	2,640,994.00	
Peter Kiewit Sons Co. Ltd.	2,810,455.00	
Project B-0692 - Contract No. 1 - Anchor Cable Replacement: Okanagan Lake Bridge, Highway 97		
Kettle Valley Contractors Ltd.	2,755,904.00	Awarded
H. Funk Excavating Ltd.	3,119,971.00	
Surrey Iron Works Ltd.	4,279,032.00	
Can-Drive Service Ltd.	4,487,700.00	
Peter Kiewit Sons Co. Ltd.	4,824,000.00	
Fraser River Pile Driving Co. Ltd.	8,057,720.00	
Project B-0735 - General Construction: Improvements - Eckhardt Avenue Bridge No. 1343 over Okanagan River at Penticton Contract No. 1 - General		
Interior Contracting Co. Ltd.	654,025.00	Awarded
Kenyon Construction Ltd.	685,208.00	
Braniff Construction	700,862.00	
Kingston Construction	839,978.00	
G.W. Carlson Construction Ltd.	883,257.00	
Senco Construction Ltd.	893,500.00	
Dura Construction	916,389.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-0975 - Contract No. 1: Bullmoose Flats Bridge No. 2787, Bullmoose Creek Bridge No. 2780, Northeast Development Road		
Miller Contracting Ltd.	3,351,609.00	Awarded
Kingston Construction Ltd.	3,366,239.00	
Goodbrand Construction Ltd.	3,496,116.00	
W.F.L. Constructors Ltd.	3,627,521.00	
Dura Construction Ltd.	3,763,013.00	
Jaemar Construction Co. Ltd.	4,130,232.00	
G.W. Carlson Construction Ltd.	4,197,130.00	
General Enterprises	5,209,410.00	
Project B-0977 - Contract No. 1 - General: Murray River Bridge No. 2782, North East Development Road		
Hansa Construction Ltd.	2,468,996.00	Cancelled, to be Recalled
Jaemar Construction Co. Ltd.	2,486,581.60	
Goodbrand Construction Ltd.	2,528,650.00	
Dura Construction Ltd.	2,728,345.00	
Interior Contracting Co. Ltd.	2,736,485.00	
Tonto Construction Co.	2,773,175.00	
A.R. Fromme & Associates Ltd.	2,841,093.00	
Kenyon Construction Ltd.	2,994,045.00	
Dillingham Corporation Canada Ltd.	3,207,297.00	
G.W. Carlson Construction Ltd.	3,288,280.00	
Ansha Construction Co.	3,706,886.00	
Peter Kiewit Sons Co. Ltd.	4,353,930.00	
Project B-0977 - Contract No. 1 - General: Murray River Bridge No. 2782, North East Development Road		
Hansa Construction Ltd.	1,725,770.00	Awarded
Goodbrand Construction Ltd.	1,923,011.00	
Kingston Construction Ltd.	2,113,804.00	
Miller Contracting Ltd.	2,136,750.00	
G.W. Carlson Construction Ltd.	2,264,760.00	
Project B-0978 - Contract No. 1 - General: Flatbed Creek Bridge No. 2783, Wolverine River Bridge No. 2781, North East Development Road		
Goodbrand Construction Ltd.	3,554,525.00	Awarded
Dura Construction Ltd.	4,485,074.00	
Jaemar Construction Co. Ltd.	4,520,536.00	
G.W. Carlson Construction Ltd.	4,562,690.00	
Kenyon Construction Ltd.	4,568,453.00	
W.F.L. Constructors Ltd.	4,644,336.00	
Project B-1076 - Contract No. 1 - General: Kasiks Overhead No. 2249, Yellowhead Highway 16		
Bastion Construction (1981) Ltd.	875,372.00	Awarded
M.D. Enterprises Ltd.	904,198.00	
Senco Construction Co. Ltd.	928,450.58	
Jaemar Construction Co. Ltd.	934,901.00	
Hansa Construction Ltd.	941,864.00	
Braniff Construction Ltd.	949,456.00	
G.W. Carlson Construction Ltd.	978,755.00	
Terrace H. & H. Builders Ltd.	1,012,759.00	
Dura Construction Ltd.	1,020,031.00	
Kingston Construction Ltd.	1,058,321.00	
Miller Contracting Ltd.	1,094,531.00	
Interior Contracting Co. Ltd.	1,095,311.00	
Ansha Contracting Co. Ltd	1,132,984.60	
Hallcraft Construction Co. Ltd.	1,146,988.00	
W.A. Stephenson Construction (Western) Ltd.	1,154,207.00	
Goodbrand Construction Ltd.	1,174,000.00	
W.F.L. Constructors Ltd.	1,295,017.00	
Peter Kiewit Sons Co. Ltd.	1,649,118.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1096 - Contract No. 1 - General: Reconstruction: Culliton Creek Bridge No. 2789 Approaches Sta. 127+15 to Sta. 137+30 (1.015 km)		
Goodbrand Construction Ltd.	2,541,366.00	Awarded
Dura Construction Ltd.	2,587,710.00	
Norm Ron Construction Co. Ltd.	2,712,431.00	
Kingston Construction Ltd.	2,712,831.20	
Dawson Construction Ltd.	2,715,900.80	
Fownes Construction Co. Ltd.	2,740,601.00	
Jaemar Construction Co. Ltd.	2,797,341.50	
G.W. Carlson Construction Ltd.	2,798,670.00	
Graehold Construction Corporation	3,064,664.20	
Project B-1102 - Contract No. 1 - Substructure: Greenville Bridge No. 2735, Greenville Access Road		
W.F.L. Constructors Ltd.	2,788,603.00	Cancelled, to be Recalled
Dura Construction Ltd.	2,814,453.00	
Hansa Construction Ltd.	2,825,325.00	
Goodbrand Construction Ltd.	3,218,632.00	
Tonto Construction Co.	3,435,762.00	
Jaemar Construction Co. Ltd.	3,883,280.35	
Peter Kiewit Sons Co. Ltd.	4,846,936.00	
Project B-1102 - Contract No. 1 - Substructure: Greenville Bridge No. 2735, Greenville Access Road		
W.F.L. Constructors Ltd.	2,972,320.00	Awarded
Hallcraft Construction Ltd.	3,331,835.00	
Goodbrand Construction Ltd.	3,399,969.00	
Peter Kiewit Sons Co. Ltd.	4,698,401.00	
Project B-1115 - Contract No. 1 - General: Baker Creek Bridge No. 1190 Improvements, Marsh Drive		
Inland Bridge Ltd	298,887.37	Awarded
F. Hedges Construction Ltd.	319,802.00	
Procon Builders Ltd. Co. Ltd.	375,491.90	
Bastion Construction (1981) Ltd.	403,825.93	
Talus Construction (1981) Ltd.	443,318.88	
Wayne Watson Construction Ltd.	454,675.11	
Kingston Construction Ltd.	455,758.24	
Dura Construction Ltd.	458,796.00	
G.W. Carlson Construction Ltd.	499,981.00	
West Shore Constructors Ltd.	512,256.90	
Project B-1145 - General Construction: Cheakamus River Bridge No. 597 and 19 Mile Creek Bridge No. 7844, Squamish Valley Road and Squamish Road		
Interland Contractors Ltd.	703,657.48	Awarded
M.D.M. Enterprises Ltd.	721,115.00	
Rowgon Construction	731,006.50	
Hansa Construction Ltd.	761,821.00	
Senco Construction Ltd.	779,626.78	
Goodbrand Construction	799,199.00	
Ansha Contracting Co.	820,615.00	
Kingston Construction Ltd.	823,818.75	
G.W. Carlson Construction Ltd.	825,133.50	
Manning Construction Ltd.	843,197.00	
Miller Contracting Ltd.	843,852.00	
Hallcraft Construction Ltd.	864,446.50	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1306 - Contract No. 1 - General: Elkford Spur Overhead No. 2752, Michel Prairie Bridge No. 210, Elk Valley Road		
Kenyon Construction Ltd.	1,657,651.00	Awarded
Braniff Construction Ltd.	1,725,016.00	
Miller Contracting Ltd.	1,737,125.00	
Dura Construction Ltd.	1,742,618.04	
Jaemar Construction Co. Ltd.	1,805,821.00	
Wheaton Construction Ltd.	1,832,263.00	
G.W. Carlson Construction Ltd.	1,836,650.00	
Hansa Construction	1,932,186.00	
Kingston Construction Ltd.	1,942,130.70	
Foundation Company of Canada Ltd.	1,990,259.00	
Penner Bros Utilities Ltd.	2,053,731.50	
Manning Construction Ltd.	2,057,984.00	
W.A. Stephenson Construction (Western) Ltd.	2,284,025.00	
Interior Contracting Co. Ltd.	2,298,932.30	
Project B-1307 - Contract No. 1 - General: Sparwood Overhead No. 2750, Michel Creek Bridge No. 2751, Elk Valley Road		
Braniff Construction Ltd.	1,125,528.50	Awarded
Kenyon Construction Ltd.	1,227,710.00	
Dura Construction Ltd.	1,248,212.60	
G.W. Carlson Construction Ltd.	1,258,406.00	
Bastion Construction Co. Ltd.	1,290,818.26	
Jaemar Construction Co. Ltd.	1,356,754.20	
Miller Contracting Ltd.	1,362,957.50	
Kingston Construction Ltd.	1,397,607.55	
Wheaton Construction Ltd.	1,427,460.00	
W.A. Stephenson Construction (Western) Ltd.	1,431,480.00	
Foundation Company of Canada Ltd.	1,438,557.00	
Manning Construction Ltd.	1,453,121.00	
Ansha Contracting Co. Ltd.	1,513,187.60	
Interior Contracting Co. Ltd.	1,596,855.90	
Penner Bros Utilities Ltd.	3,761,165.00	
Project B-1358 - Contract No. 1 - Bonaparte River Bridge Improvements: No. 1158, Trans Canada Highway 1		
G.W. Carlson Construction Ltd.	507,754.00	Awarded
Interior Contracting Co. Ltd.	521,262.50	
Talus Construction Ltd.	580,663.11	
Braniff Construction Ltd.	588,774.59	
Kingston Construction Ltd.	651,367.30	
Dura Construction Ltd.	656,048.00	
Project B-1391 - Contract No. 2 - Campbell River and Quathiaski Cove Ferry Terminal Revisions		
Harbour Pile Driving Co. Ltd.	2,489,689.00	Cancelled
Fraser River Pile Driving Co. Ltd.	2,666,000.00	
Quadra Construction Co. Ltd.	2,813,005.00	
Project B-1400 - Contract No. 1 - General: Foothills Boulevard Bridge No. 2764, Foothills Boulevard		
Jaemar Construction Co. Ltd.	3,167,472.00	Awarded
Kingston Construction Ltd.	3,284,817.00	
Hansa Construction Ltd.	3,328,610.00	
Braniff Construction Ltd.	3,429,837.00	
Kenyon Construction Ltd.	3,515,860.00	
F. Hedges Construction Ltd.	3,639,845.00	
Goodbrand Construction Ltd.	3,846,020.00	
G.W. Carlson Construction Ltd.	3,959,430.00	
Miller Contracting Ltd.	4,017,432.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Dura Construction Ltd.	4,119,000.00	
Peter Kiewit Sons Co. Ltd.	4,197,670.00	
Columbia Bitulithic Ltd.	4,677,923.00	
Commonwealth Construction Co. Ltd.	4,844,870.00	
Interior Contracting Co. Ltd.	5,161,594.00	
Project B-1420 - Contract No. 1 - General: Pattullo Bridge Retrofitting, South Approach, Bearing Replacement at Pier No. 9 and Bent No. 10		
Van Construction (A Div. of Van Vliet Constr. Co. Ltd.)	894,881.88	Awarded
Hitac Steel Construction Ltd.	904,665.00	
Dominion Bridge - Vancouver a Unit of AMCA Inter. Ltd.	954,980.00	
Surrey Iron Works Ltd.	976,930.00	
Cawron Inc. Western Bridge Division	998,668.00	
Project B-1666 - Pile Driving and Load Test: Highway 99 to Queensborough Bridge		
Franki Canada Ltd.	555,000.00	Awarded
Fraser River Pile Driving Co. Ltd.	906,734.60	
Peter Kiewit Sons Co. Ltd	1,122,740.00	
Dillingham Construction Ltd.	1,377,000.00	
Sceptre Dredging Ltd.	1,437,054.00	
Project B-1709 - Contract No. 1 - General: Mission Overhead Bridge No. 2736, Abbotsford - Mission Highway 11		
Felix Construction Co. (Partnership) W. Felix Equipment Ltd. (and) Sefton Construction Ltd.	553,635.74	Awarded
Jaemar Construction Co. Ltd.	620,674.50	
Van Construction, Div. of Van Vliet Construction	648,859.00	
Manning Construction Ltd.	649,291.00	
Hansa Construction Ltd.	660,000.00	
M.D.M. Enterprises Ltd.	677,638.00	
Senco Construction Ltd.	679,250.72	
Kingston Construction Ltd.	695,841.30	
Hallcraft Construction	757,264.00	
G.W. Carlson Construction Ltd.	766,873.00	
Goodbrand Construction Ltd.	768,754.00	
Ansha Contracting Co.	815,101.50	
Project B-1714 - Contract No. 1 - General: Seymour River Bridge No. 2282, Mount Seymour Parkway		
Kingston Construction Ltd.	833,319.25	Awarded
Smith Bros. & Wilson	901,266.22	
M.D.M. Enterprises Ltd.	908,480.00	
Interland Contractors	928,281.80	
Jaemar Construction Co. Ltd.	938,153.00	
Van Construction, Div. of Van Vliet Construction	955,870.00	
Dura Construction Ltd.	966,800.00	
B.G.M. Construction	972,000.05	
Manning Construction Ltd.	1,002,486.00	
Mutual Construction	1,054,606.94	
W.A. Stephenson Construction (Western) Ltd.	1,074,550.00	
Grimwood Construction	1,198,335.25	

Ferries

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1139 - Contract No. 2 - Westview and Blubber Bay Ferry Terminals: Turning Dolphin and Wingwall Repairs		
Sawchuck Pile Driving Ltd.	348,660.00	Awarded
Fraser River Pile Driving Co. Ltd.	367,639.00	
Harbour Pile Driving Co. Ltd.	438,995.00	
Dillingham Corp. Canada Ltd.	545,600.00	
Project B-1391 - Contract No. 2 - Terminal Revisions: Campbell River and Quathiaski Cove Ferry Terminals		
Harbour Pile Driving Co. Ltd.	2,489,689.00	Cancelled
Fraser River Pile Driving Co. Ltd.	2,666,000.00	
Quadra Construction Co. Ltd.	2,813,005.00	
Project T.F.M. 143 - Contract No. 6 - Fire Protection System and Domestic Water Supply: Departure Bay Ferry Terminal		
Hub Excavating	96,700.00	Awarded
Chew Excavating	108,785.00	
Donald Ian Hamilton, Regent Construction Co. (1974) Ltd.	110,078.00	
Ring Contracting Ltd.	153,814.00	
National Installation Ltd.	347,000.00	
Project T.F.M. 143 - Contract No. 7 - Departure Bay Ferry Terminal: Foot Passenger Walkway		
J. & R. Construction Ltd.	418,673.00	Awarded
Farmer Construction Ltd.	427,211.00	
Cana Construction Co. Ltd.	438,116.00	
Deacon Developments Ltd.	448,590.00	
D. Robinson Contracting Ltd.	448,950.00	
Quinney & Fuller Construction Ltd.	469,580.00	
Kingston Construction Ltd.	481,882.00	
G.W. Carlson Construction Ltd.	528,853.00	
Project T.F.M. 191 - Contract No. 2 - Village Bay Ferry Terminal: Electrical		
Gamma Electric Ltd.	37,500.00	Awarded
W.E.S. Electric Ltd.	52,355.00	
Ricketts-Sewell Electric Ltd.	53,800.00	
Western Power Cable Jointing Ltd.	70,337.00	
Project T.F.M. 192 - Contract No. 4 - Fire Alarm System: Tsawwassen Ferry Terminal		
Chambers Electric Corp.	24,500.00	Awarded
Western Magnetic Electric Ltd.	31,125.50	
Sangard Electric Ltd.	31,234.00	
Gamma Electric Ltd.	31,800.00	
Lenneil Installations Ltd.	36,250.00	
Grant McFarlane Electric	36,700.00	
Mott Electric Ltd.	55,253.00	
Project T.F.M. 225 - Contract No. 1 - Double Decking: Berths No. 2 and No. 3, and for Concrete Transfer Deck, Horseshoe Bay Ferry Terminal		
Cana Construction Ltd.	2,464,000.00	Awarded
Penner Bros. Utilities Ltd.	2,596,821.00	
Zagreb Construction Ltd.	2,675,000.00	
Kingston Construction Ltd.	2,694,721.00	
Interland Contractors Ltd.	2,827,447.00	
Hansa Construction Ltd.	2,868,789.00	
Manning Construction Ltd.	2,960,000.00	
Jaemar Construction Co. Ltd.	3,187,900.00	
G.W. Carlson Construction Ltd.	3,615,046.00	
Dillingham Corporation Canada Ltd.	3,807,950.00	

Gravel Crushing

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project M-1156 - Crushed Granular Aggregate in Stockpile,		
0003 - 66 Mile Pit No. P4122 on Highway 97		
Ptarmigan Gravel Ltd.	79,950.00	Awarded
Pete's Development Ltd.	91,430.00	
Columbia Bitulithic Ltd.	97,580.00	
T.R. Crushing Ltd.	109,060.00	
D.M.J. Construction Ltd.	108,650.00	
M.R.C. Enterprises Ltd.	120,950.00	
Johnson's Trucking Western Ltd.	123,000.00	
W.E. Robertson Construction Co. Ltd.	129,970.00	
Inland Contracting & Sweeping Ltd.	164,000.00	
0004 - 38 Mile Pit No. P4188		
Pete's Development Ltd.	59,750.00	Awarded
Ptarmigan Gravel Ltd.	65,000.00	
Columbia Bitulithic Ltd.	74,250.00	
D.M.J. Construction Ltd.	78,500.00	
W.E. Robertson Construction Co. Ltd.	79,250.00	
M.R.C. Enterprises Ltd.	99,500.00	
Inland Contracting & Sweeping Ltd.	100,000.00	
0005 - McTavish Pit No. 2278		
Ptarmigan Gravel Ltd.	52,050.00	Awarded
Salmon Arm Ready Mix Ltd.	54,840.00	
Cantex Engineering & Construction Co. Ltd.	57,690.00	
D.M.J. Construction Ltd.	58,710.00	
Enderby Gravel Products Ltd.	65,460.00	
Island Contracting and Sweeping Ltd.	78,480.00	
T.R. Crushing Ltd.	87,600.00	
0006 - To supply and deliver crushed granular aggregate and chip seal aggregate in stockpiles, Salt Spring and Pender Islands		
Construction Aggregates Ltd.	73,180.00	Awarded
Inland Asphalt Producers Ltd.	102,380.00	
Jack Cewe Ltd.	110,040.00	
Hub City Paving Ltd.	180,100.00	
0007 - Lemon Creek Pit No. 3115B		
Cantex Engineering & Construction Co. Ltd.	107,350.00	Awarded
T.R. Crushing Ltd.	143,800.00	
D.M.J. Construction Ltd.	149,700.00	
Ptarmigan Gravel Ltd.	151,250.00	
Jake-Jay Holdings Ltd.	192,600.00	
Columbia Bitulithic Ltd.	208,950.00	
Enderby Gravel Products Ltd.	294,000.00	
0008 - Supply and Deliver Crushed Aggregate in Stockpile - Cortes Island		
Jack Cewe Ltd.	121,536.00	Awarded
Venture Paving Ltd.	138,960.00	
Construction Aggregates Ltd.	144,864.00	
Upland Excavating (1971) Ltd.	147,312.00	
0009 - Tatlow Pit No. 5402A		
Inland Contracting & Sweeping Ltd.	61,502.00	Awarded
Hal Wold Contracting Ltd.	65,090.00	
Ptarmigan Gravel Ltd.	105,800.00	
T.R. Crushing Ltd.	111,550.00	
D.M.J. Construction Ltd.	113,620.00	
W.E. Robertson Construction Co. Ltd.	120,060.00	
Columbia Bitulithic Ltd.	123,740.00	
Enderby Gravel Products Ltd.	132,940.00	

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
0010 - Cronin Pit No. 5410B		
Inland Contracting & Sweeping Ltd.	95,640.00	Awarded
Hal Wold Contracting Ltd.	156,000.00	
T.R. Crushing Ltd.	171,600.00	
Ptarmigan Gravel Ltd.	180,000.00	
M.C.R. Enterprises Ltd.	198,000.00	
Columbia Bitulithic Ltd.	239,400.00	
Enderby Gravel Products Ltd.	263,400.00	
0011 - To supply Crushed Granular Aggregate in Stockpile: Savary and Keats Island		
Construction Aggregates Ltd.	96,780.00	Awarded
Westcott Agencies Ltd.	105,000.00	
Venture Paving Ltd.	127,200.00	
Jack Cewe Ltd.	141,720.00	
0013 - Campbell Pit No. 2305		
Enderby Gravel Products Ltd.	49,840.00	Awarded
Salmon Arm Ready Mix Ltd.	53,760.00	
Hal Wold Contracting Ltd.	55,720.00	
T.R. Crushing Ltd.	64,960.00	
D.M.J. Construction Ltd.	74,200.00	
0016 - Siwask Pit No. P2476		
Cantex Engineering & Construction Co. Ltd.	139,780.00	Awarded
Langley Lo-Cost Builders Ltd.	159,320.00	
L.R. Wyles Trucking Ltd.	163,520.00	
Inland Contracting & Sweeping Ltd.	171,660.00	
Ptarmigan Gravel Ltd.	174,740.00	
D.M.J. Construction Ltd.	186,900.00	
E. & M. Crushing Ltd.	197,500.00	
Enderby Gravel Products Ltd.	210,800.00	
Venture Paving Ltd.	319,400.00	
0017 - Fort Nelson Pit No. P4422		
Cyre Gravel & Concrete Ltd.	269,000.00	Awarded
Langley Lo-Cost Builders Ltd.	275,000.00	
L.R. Wyles Trucking Ltd.	284,400.00	
Geddes Contracting Co. Ltd.	290,000.00	
Lorean Enterprises Inc.	352,000.00	
Kany Construction & Engineering Ltd.	360,000.00	

Miscellaneous

Project C-1309 - Construction: Weigh Scale on Highway 97, north of Vernon		
L. Steiner Construction Ltd.	139,246.00	Awarded
Williamson Bros. Construction Ltd.	144,919.00	
Contech Enterprises Ltd.	153,328.00	
Maddocks Construction Ltd.	157,000.00	
Amrak Enterprises Ltd.	182,000.00	
Revelstoke Construction Ltd.	200,000.00	
Project C-2901-0002 - Curb Protection and Landscape Revegetation: Lantzville to Craig's Crossing Section of Island Highway 19		
Holland Landscapers Ltd.	32,911.00	Awarded
Joe Brum Landscaping Ltd.	37,900.00	
Kimoff Landscaping Ltd.	50,720.00	
Ring Contracting Ltd.	52,422.00	
Chew Excavating Ltd.	57,555.00	
Vic's Landscaping Ltd.	58,000.00	
Chris Design Landscape Ltd.	78,640.00	

Miscellaneous - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project D-1124 - Landscape Development: Athalmer Overpass, Invermere, B.C.		
Dave's Landscaping Ltd.	25,166.00	Awarded
Winderberry Nursery and Landscaping	31,000.00	
Westwind Nursery	31,700.00	
Gino De Marini, Gino's Gardening & Landscaping Ltd.	41,295.00	
Quality Landscape Contractors	41,650.00	
Wilco Landscape Contractors Ltd.	59,000.00	
Murray Nurseries Ltd.	79,589.00	
Project D-1547 - Contract No. 2 - Washroom Facility: Mount Terry Fox Rest Area		
Donovan Log Homes by McDermid & Johnson Ltd.	69,433.00	Awarded
Project D-3714 - Contract No. 3 - Landscape Development: Bradner Safety Rest Area, Matsqui, B.C.		
Versteeg Landscaping Corp.	33,439.22	Cancelled
Jeckway Landscaping Ltd.	34,189.77	
Johnson Landscaping Ltd.	37,376.91	
Cedar Crest Lands (B.C.) Ltd.	38,111.00	
Holland Landscapers Ltd.	38,371.08	
Kimoff Landscaping Ltd.	38,532.55	
Dave's Landscaping Ltd.	39,845.48	
Haw Can Construction Ltd.	44,255.10	
Envirotectural Services Ltd.	49,412.00	
Bakerview Gardens	59,069.00	
Project J-1103C - Landscape Maintenance: Horseshoe Bay - Lynn Valley Interchange (17 km)		
Popular Landscaping & Gardening Ltd.	85,685.85	
West Shore Landscaping Ltd.	179,340.00	Awarded
Ekset Contracting Ltd.	180,000.00	
Coast Utility Services Ltd.	293,700.00	
Project J-1401C - Landscape Maintenance: Knight Street Bridge Interchange		
Popular Landscaping & Gardening Ltd.	51,744.70	Awarded
Vane Lawn and Garden Services Ltd.	64,000.00	
Vancouver Maintenance Co.	78,660.00	
Cedardale Tree Service Co. Ltd.	84,960.00	
Coast Utility Services Ltd.	115,700.00	
Project J-1402C - Landscape Maintenance: Highway 99 at Westminster Highway, Cambie Road, No. 5 Road and North and South End, Oak Street Bridge Vicinity, Vancouver		
Popular Landscaping and Gardening Ltd.	19,519.42	Awarded
Hindrik Map Active Landscaping Co.	24,000.00	
Vane Lawn and Garden Services Ltd.	28,000.00	
Vancouver Maintenance Co.	28,162.00	
Coast Utility Services Ltd.	115,700.00	
Project J-1403C - Landscape Maintenance: Highway Plantation Beds, 1st Avenue Interchage to McCallum Road Interchange Trans Canada Highway No. 1, Vancouver		
Hindrik Map Active Landscaping Co.	30,000.00	Awarded
Popular Landscaping and Gardening Ltd.	32,724.00	
Vane Lawn and Garden Services Ltd.	34,000.00	
Arie de Bruin, Vantec Horicultural Services Ltd.	37,800.00	
Coast Utility Services Ltd.	187,000.00	
Project J-1404C - Landscape Maintenance: Cape Horn Interchange, Port Mann Bridge, Highway 1, Vancouver		
Popular Landscaping and Gardening Ltd.	19,282.35	Awarded
Hindrik Map Active Landscaping Co.	28,000.00	
Coast Utility Services Ltd.	59,900.00	

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
REGION 1 North Vancouver	C-1168	Highway 99	"M" Bridge Approaches	0.5	New bridge approaches		100%
	C-1477	Highway 99	Suicide Hill-Pemberton	0.3	Slope stabilization		100%
	C-1478	Alta Lake Road-Whistler	Bridge replacement	0.8	Miller Creek Bridge replacement		100%
	C-1479	Highway 99	Furry Creek/Britannia Hill	3.0	4 lane section (one new lane)		75%
	C-3208	Highway 99	Alpine Drive to Pemberton	27.3	Improve drainage and widen		65%
	N-0368	Highway 99	Horseshoe Bay to Britannia	-	Guardrail replacement		100%
Gibsons	C-0118	Various Roads-Gibsons District	Minor betterments	-	Ditching, gravelling, reconstruction paving	May/82	100%
	C-0800	Highway 101		0.9	Construct and pave third lane	Aug/82	100%
	C-1480	Port Mellon Highway (Lower Rd.)	South of Gibsons Village Boundary	0.6	Construct and pave shoulder	Oct/82	100%
	C-1642	Savary Island Roads	Various Roads	4.0	Gravelling	Oct/82	100%
	N-0369	Sunshine Coast Highway 101	Gibsons, Madeira Park, and Powell River Areas	0.6	Place guardrail	July/82	100%
New Westminster	C-0802	Scott Road	Scott Road at South of 70th Avenue	-	Install multiplate pipe arch	Dec/82	100%
	C-1481	Route 7A (Hastings/Barnet Hwy.)	Willingdon to Gilmore	0.8	Grind and repave north half of highway	Aug/82	100%
Chilliwack	C-0156	Hemlock Valley Road	Morris Valley Road to Ski Area	14.8	Drainage improvements and road widening along various areas	Apr/82	100%
	C-0804	Rockwell Drive	2 km south of Green Point Park to N. Boundary Kent Municipality	3.4	Drill, blast, widen, grade revision and crush various sections	Apr/82	100%
	W-0792	Fencing Trans Canada Highway	Various locations: Countyline to Vedder Canal	7.78	Remove old fence and construct new fence	Apr/82	100%
	N-0371	Guardrail Installation	Various locations Trans Canada Highway 1 Boston Bar Area	0.5	Install 180 pieces	July/82	100%
	C-1482	Miscellaneous Paving	Trans Canada	0.2	Recap Jones Hill	July/82	100%
			Lougheed Highway	0.6	Recap Mt. Woodside		
			Pattison Road	1.5	Gravel to asphalt		
			Various other minor areas		Recap		
	C-0120A	Hope Yard Improvements	Hope Yard	-	Preparing base for paving and various other improvements	June/82	100%
	C-0120B	North Nicomen Road	End of pavement west for .3 km	0.3	Drill, blast, widen and crush along rock cut, move poles	May/82	100%
	C-0120C	Abbotsford Minor Betterments	Abbotsford Foreman Area	-	Various minor improvements	June/82	100%
	C-0120D	Agassiz Minor Betterments	Agassiz Foreman Area	-	Various minor improvements	June/82	100%
	C-0120E	Allison Pass Minor Betterments	Allison Pass Foreman Area	-	Various minor improvements and shouldering STP Highway 3	June/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Chilliwack (cont'd)	C-0120F	Boston Bar Minor Betterments	Boston Bar Foreman Area	-	Yard lighting, Florence Pit lighting, and various other minor improvements	June/82	100%
	C-0120G	Cultus Lake Minor Betterments	Cultus Lake Foreman Area	-	Various minor improvements	June/82	100%
	C-0120H	Hope Minor Betterments	Hope Foreman Area	-	Various minor improvements	June/82	100%
	C-0120J	Mission Minor Betterments	Mission Foreman Area	-	Various minor improvements	June/82	100%
	C-0120K	Rosedale Minor Betterments	Rosedale Foreman Area	-	Various minor improvements	June/82	100%
	C-0120M	Yale Road West	Vedder Canal to Lickman Road Overpass	6	Crush shoulders	Feb/83	100%
	C-0120N	Bell Crossing Culvert	Hope Area	-	Installation of culvert	June/82	100%
	C-0120O	Cambie Pit Slide	STP Highway Allison Pass	-	Drainage and slope stabilization	July/82	100%
	C-0120Q	Mission C.P.R. Overhead Sand Haul Abbotsford-Mission Hwy.	C.P.R. Overhead and Connection with Highway 7	-	Preload and base preparation	Sept/82	100%
	C-0120R	Trans Canada Highway	Trans Canada Highway and Ainslie Road, Boston Bar Area	0.2	Removal of slide material	Dec/82	100%
	C-0120S	Lougheed Highway 7	Intersection with Morris Valley Road, Agassiz Area		Construct left turn slot onto Morris Valley Road	Feb/82	100%
REGION 2 Kamloops	C-0123	Various Roads	Various roads within Kamloops District	39.7	Minor road widening and reconstruction, gravelling, machine paving, road mix asphalt. Also installed 2 cattleguards, 660 m fence, 220 m new culverts and 230 m guardrail. 0.5 km of new const.	May/82	100%
	C-0815A	Fredericks Road No. 1892	km 0.0 to km 9.6	9.6	Widen road	June/82	100%
	C-0815B	Trans Canada Highway 1	Segment 920 - km 56.1 to Segment 935 - km 0.5	2.1	Extraordinary machine patching	May/82	100%
	C-1462	Trans Canada Highway 1	Segment 920 - km 56.1 to Segment 935 - km 0.5	1.2	Extraordinary machine patching	June/82	100%
	C-1462	Yellowhead South Highway 5	Segment 1740 - km 32.8 to Segment 1740 - km 93.1	0.3	Extraordinary machine patching	June/82	100%
	C-1561	Bridge Lake Road No. 24	Segment 1749 - km 76.7 to km 93.2	3.0	Reconstruction, road widening and gravelling	June/82	100%
	C-1562	Yellowhead South Highway 5	Segment 1740 - km 3.9 to 7.2	3.3	New construction	June/82	100%
	C-1563	Halston Bridge Approaches	Hamilton St. (North Kamloops) to Highway 5	-	New construction of bridge approaches for Halston Bridge	Nov/82	10%
		Bridge Lake Road No. 24	At Lemieux Creek	-	New construction of detour & approaches for new bridge at Lemieux Creek	Mar/83	40%
	C-1615	Old North Thompson Hwy. 3554	At Clearwater River	-	New construction of approaches for new Clearwater River Bridge	Sept/82	60%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Kamloops (cont'd)	C-1778	Trans Canada Highway 1	Segment 920 km 47.5 to 50.9 km 55.7 to 61.4 km 64.4 to 65.6		Widen road for future 4 lanes	Feb/83	25%
	C-2514	Clearwater Valley Road No. 1214	km 25.3 to 28.1	1.1	Reconstruction of road & bridge approaches for Fight Creek 1 and 2 bridges	July/82	100%
	N-0373	Various Roads	Various roads within the Kamloops District	638 m	Guardrail installation 262 pieces	June/82	100%
	W-0344	Various Schedule II Highways	Various Schedule II Highways within the Kamloops District	65.6	Fence construction and repair and 1 cattleguard installed	Apr/82	100%
Salmon Arm	C-0124A	Trans Canada Highway 1 - Arterial 683R	Sub 0935 - km 76.4	200 m	Installation of 200 m of "Big O" pipe + 1.2 m x 3.6 m catch basin	Oct/82	100%
	C-0124A	Trans Canada Highway 1 - Arterial 683R	Sub 0935 - km 82 to 84	1 036 m	Installation of asphalt curbing and 11 downspouts	Sept/82	100%
	C-0124A	Trans Canada Highway 1 - Arterial 683R	Sub 0935 - km 78.5 to 80.7	6 islands	Filling of 6 median islands with gravel and topping with asphalt-see Project C-1465	July/82	100%
	C-0124A	Dunne No. 112	km 0 to 0.34	0.34	Reconstruction - Cleared, grade revised, ditched, widened and gravelled (some rock to blow)	Nov/82	75%
	C-0124B	Hepburn No. 198	km 1.81 to 2.76 and km 3.89 to 4.2	1.26	Reconstruction with minor realignment. Cleared, ditched, widened and some gravel added	Sept/82	80%
	C-0124B	Chase-Falkland No. 194	km 14.93 to 15.82	0.89	Reconstruction with minor realignment add grade revision. Cleared, widened and gravelled	July/82	100%
	C-0124B	Pinantan No. 227	km 1.2 to 1.9	0.7	Reconstruction with minor realignment. Ditched, widened and gravelled	July/82	80%
	C-0124B	Little River No. 744	km 0 to 0.3	0.3	Reconstruction - Ditched, widened, and gravelled	Oct/82	100%
	C-0124C	Gyp. Road No. 18	km 0.26 to 0.59	0.33	New construction-Gyp. Road extended to Wellington Road-cleared, excavated and backfilled with pitrun and 3/4" crush	May/82	100%
	C-0124C	Monte Lake No. 293	km 0 to 0.8	0 8	Reconstruction with minor realignment. Ditched, widened and gravelled	June/82	100%
	C-0124F	Back Road No. 291	km 4.93 to 5.53	0 6	Reconstruction on a new alignment as a result of relocation of Pringle Bridge No. 6099 - cleared, excavated and gravelled	July/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Salmon Arm (cont'd)		Kamloops-Vernon Highway 97	Seg. 1125 km 12.84 to 16.8 (4 lane)	3.96	Complete repaving with A-BPM by contract Asphalt curbing and down spouts installed where required	July/82	100%
			km 16.8 to 18.43 (2 lane)	1.63	Complete repaving with A-BPM by contract Asphalt curbing and down spouts installed where required.		
	C-0124D	Squilax - Anglemont No. 446	km 44.0 to 44.5	0.5	Reconstruction - cleared, grubbed, ditched, widened and regravelled	Oct/82	cont'd
	C-0124D	Prigmore No. 757	km 0 to 0.09	0.09	Reconstruction - cleared, ditched, and widened and regravelled	Nov/82	100%
	C-0124D	Leopold No. 145	km 0.62 to 1.3	0.68	Regravelled	Nov/82	100%
	C-0124E	Vernon-Sicamous Highway 97A	Seg. 1124 to km 28.0	0.2	Reconstruction - clearing of brush and placement of gravel to construct a right turn lane from Highway 97A onto two Mile Road No. 512.	June/82	100%
	C-0124E	Vernon-Sicamous Highway 97A	Seg. 1124 to km 22.38	0.2	Reconstruction - Ditching, widening and gravelling to construct a turn lane from Highway 97A onto Swansea Road No. 668	Oct/82	100%
	C-0124E	Delaney No. 622	km 01 to 0.2	0.1	Reconstruction-ditching, culvert placement and regravelling	July/82	100%
	C-0124E	Stadnicki No. 665	km 0.16 to 0.4	0.24	Reconstruction - placement of pit run gravel and crush gravel. Installation of culverts where required	Sept/82	100%
	C-0124E	Blais No. 614	km 0 - 0.4	0.4	Regravelled	July/82	100%
	C-0124E	Vernon-Sicamous Highway 97A	Seg. 1124 - km 28.5	0.1	Placement of rock, by gradal, down fill slope of road which is eroded annually by high water of Mara Lake	Nov/82	100%
	C-0124T	Pre-engineering for improvements for various roads	Miscellaneous Projects	-	Doing survey work necessary for reconstruction from preparing right of way plans to staking "cuts" and "fills"	Apr/82	cont'd
	C-0819	Trans Canada Highway 1	Salmon Arm Foreman Area Miscellaneous locations	-	Machine patching by contract	July/82	100%
	C-0819	Trans Canada Highway 1 and Vernon-Sicamous Highway 97A	Sicamous Foreman Area	-	Machine patching by contract	July/82	100%
	C-0819	Squilax-Anglemont No. 446	km 8.35 to 8.65	0.3	Machine paving of the approaches to the relocated Freeman Bridge No. 6085	July/82	100%
	C-1463	Lybarger No. 639	km 0 to 0.3	0.3	New Construction - clearing, excavation and rebuilding with improved grade and alignment	June/82	100%
	C-1463	Lybarger No. 639	km 0 to 0.5	0.5	Paving of new construction	Oct/82	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Salmon Arm (cont'd)	C-1463	Trans Canada Highway 1 at Lybarger Junction	Sub. 0960 - km 24.46 to 24.9	0.44	Reconstruction - excavation, ditching & widening to create a left turn slot and acceleration and deceleration lanes to Lybarger Road	June/82	60%
	C-1463	Trans Canada Highway 1 at Lybarger junction	Sub. 0960 - km 24.46 to 24.9	0.44	Paving of acceleration and deceleration lanes	Oct/82	100%
	C-1464	Avoca West No. 612	km 0 to 0.3	0.3	Reconstruction - clearing, realignment ditching, widening and gravelling	June/82	100%
	C-1465	Trans Canada Highway 1 - Arterial 683R	Sub. 0935 - km 78.5 to 80.7	4,320 Lin.ft.	Laying of "Extruded concrete Curbing" to provide raised medians in 4 lane section	June/82	100%
	W-0345	Schedule II Fencing	Rebuilding of existing farm		According to Ministry Specifications	July/82	100%
		Trans Canada Highway 1	3 locations	1.23	Fence replaced by contract		cont'd
		Kamloops-Vernon Highway 97	14 locations	17.13	Fence replaced by Highway Min. Crews	Aug/82	100%
		Salmon River No. 360 at Kaiser Bridge.	1 location	0.6	Fence replaced by Highway Min. Crews	Oct/82	100%
	N-0374	Kamloops-Vernon Highway 97	Seg. 1125 - km 57 to 70	1560 m	Place Type A guardrail where required	Oct/82	cont'd
	B-1438	Kaiser Bridge No. 6077 on Salmon River Road No. 360	km 15.40 to 15.77	0.37	Reconstruction-realignment resulting in bridge relocation. Topsoil bunched in piles for removal and some gravel backfill placed	Oct/82	10%
Vernon	C-1466	Highway 97	Mendenhall Road	.025	Left Turn slot	July/82	100%
	C-1466	Highway 97	O'Keefe Ranch	.025	Left Turn slot	July/82	100%
	C-1466	Highway 97	St. Anne's Road	.025	Left Turn slot	July/82	100%
	C-1466	Highway 97	Railroad Crossing O'Keefe Siding	.025	Reconstructed and widened	July/82	100%
	C-1466	Highway 97	27th Street and 43rd Avenue	.01	Reconstructed and widened intersection	July/82	100%
	C-1467	Highway 6	km 4.10 to 7.24	3.14	Widening, gravelling and paving	June/82	100%
	C-1469	Enderby-Mabel Lake No. 74	km 13.75 to 14.0	0.25	Reconstruction and paving	June/82	100%
	C-1631	Enderby-Mabel lake No. 74	km 21.35 to 22.35	1.00	Gravelling, reconstruction	June/82	100%
	C-1470	Highway 6 (Lumby-Shuswap Hill)	km 27.37 to 37.2	9.83	Reconstruction, widening, installed cattle underpass	July/82	100%
	C-1683	Edgar Road No. 149	km 3.0 to 3.5	.50	Relocation and reconstruction	Sept/82	100%
	C-0125B	Gardom Lake Road No. 545	km 2.09 to 3.	.91	Reconstruction, gravelling	June/82	100%
	C-0125D	Richland Road No. 103	km 6.34 to 6.84	.50	Reconstruction, gravelling	May/82	100%
	C-0125A	Glen Hayes Road No. 403	km 0.0 to 2.0	2.0	Reconstruction, gravelling	July/82	100%
	C-0829	Hartnell Road No. 184	km 0.0 to 0.05	.05	New P.M. on surface	June/82	100%
	C-0829	Highway 97 Frontage Road and subdivision	-	.03	New P.M. on surface	Aug/82	100%
	C-1467	Highway 6	km 4.10 to 7.24	3.14	Shoulder pavement widening	June/82	100%
	C-2658	Westside Road No. 138	km 34.05 to 40.48	6.43	Paving	Mar/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Penticton	C-0475	Princeton-Summerland Rd. No. 40	km 15.5 to 34.7	15.0	Widening, realigning and paving	1980	60%
	C-0475	Princeton-Summerland Rd. No. 40	km 34.7 to 35.2	0.6	Widening, realigning and reconstruction	1981	75%
	C-3660	Kruger Hill-Highway 97	C.P.R. Crossing - West	5.1	Additional third lane	1978	60%
	C-0126B	Arlayne Road-Kaleden	km .382 to .497	.115	Reconstruction, gravelling and paving	1982	90%
	C-0126P	North Naramata Road	km 5.962 to 6.567	.605	Widening, reconstruction and gravelling	1982	90%
	C-0182A	Parsons Road	km 0.0 to 1.335	1.335	Realigning and reconstruction	1982	50%
	C-0126P	Parsons Road	km 0.0 to 1.335	1.335	Gravelling and paving	1983	100%
	C-0126C	McLean Creek Road	km 2.986 to 3.761	.785	Realigning, reconstruction, gravelling	1982	90%
	C-0126B	Road No. 94-No. 39, Oliver	km 0.0 to .50	.50	Widening, gravelling and oiling	1982	90%
	C-0126B	58 Avenue, Osoyoos	km 0.0 to .30	.30	Widening, reconstruction and gravelling	1982	90%
	C-047B	No. 4 Road, Oliver	km .179 to .427	.248	Construction and gravelling	1983	90%
	C-047B	2nd Avenue, Osoyoos	km .122 to .377	.255	Reconstruction and gravelling	1983	90%
	C-1026B	Rigeway Road, Oliver	km 0.0 to .331	.331	Widening, construction and gravelling	1982	90%
	C-0205	Suicide Corner, Highway 3	km 19.278 to 19.592	.314	Realigning, construction and cold mix	1983	90%
	C-0473D	Keremeos Bypass	km 0.0 to 2.5	.65	Widening and reconstruction	1982	40%
Merritt	C-0127A	Princeton-Kamloops Highway 5	km 61.0 to 80.75		Shouldering both sides after drum-mix	Oct/82	100%
	C—127B	Botanie Creek Road No. 151	km 7.20 to 10.8	3.6	Reconstruction and gravelling	Aug/82	100%
	C-0127C	Meadow Creek Road No. 178	Miscellaneous sections	1.0	Major patching prior to seal coat	May/82	100%
	C-0127E	Trans Canada Highway 1	km 11.1 to 11.6	0.5	Install old 18" guardrail as retaining wall	July/82	100%
	C-0127F	Douglas Lake Road No. 25	km 50.17 to 50.88	0.71	Upgrade road, remove Norfolk No. 1 and No. 2 underpass and replace with steel underpass	Nov/82	100%
	C-0127L	Meadow Creek Road No. 178	km 16.09 to 19.23	3.14	Clearing and grubbing right of way	Mar/83	100%
	C-0476	Meadow Creek Road No. 178	km 1.7 (Galena Avenue) to 16.09	14.39	Clearing and grubbing	Mar/83	100%
	C-0476	Meadow Creek Road No. 178	km 19.23 to 20.6	1.37	Reconstruction to subgrade	Aug/82	90%
	C-0476	Meadow Creek Road No. 178	km 20.62 (Neale Creek) to 22.46 (Walloper Pit)	1.84	Reconstruction, gravelling and paving	May/82	100%
	C-0476	Meadow Creek Road No. 178	km 16.10 to 20.62	9.04	Fencing right of way, both sides	Aug/82	100%
	N-0378A	Princeton-Kamloops Highway 5	Miscellaneous sections	1174 m	Install 690 mm guardrail	Nov/82	100%
	N-0378B	Trans Canada Highway 1	Miscellaneous sections	1278 m	Install 960 mm guardrail	Sept/82	100%
	W-0349	Princeton-Merritt Highway 5	km 42.37 to 45.95 West		Schedule II Fencing	Apr/82	
	W-0349	Princeton-Merritt Highway 5	km 47.28 to 50.64 East		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 58.39 to 59.78 West		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 60.15 to 60.64 West		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 61.05 to 63.89 East		Schedule II Fencing	to	100%
	W-0349	Princeton-Merritt Highway 5	km 78.47 to 82.86 East		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 80.00 to 85.06 West		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 84.14 to 85.39 East		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 85.39 to 86.58 East		Schedule II Fencing		
	W-0349	Princeton-Merritt Highway 5	km 85.39 to 86.58 West	24.74	Schedule II Fencing	Mar/83	

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Merritt (cont'd)	W-0349	Merritt-Kamloops Highway 5	km 21.53 to 22.33 West		Schedule II Fencing	Apr/82	100%
	W-0349	Merritt-Kamloops Highway 5	km 23.51 to 24.10 East		Schedule II Fencing		
	W-0349	Merritt-Kamloops Highway 5	km 31.38 to 32.93 East		Schedule II Fencing		
	W-0349	Merritt-Kamloops Highway 5	km 31.84 to 32.90 West		Schedule II Fencing	to	
	W-0349	Merritt-Kamloops Highway 5	km 38.96 to 41.45 East		Schedule II Fencing		
	W-0349	Merritt-Kamloops Highway 5	km 39.82 to 41.38 West		Schedule II Fencing		
	W-0349	Merritt-Kamloops Highway 5	km 44.90 to 49.26 West		Schedule II Fencing		
	W-0349	Merritt-Kamloops Highway 5	km 54.05 to 57.37 West	15.73	Schedule II Fencing	Mar/83	
Lillooet	K-2602	Texas Creek Road	km 5.13 to 6.9	1.8	Reconstruction, clearing and grubbing of R/W	Mar/83	80%
	C-4170	Duffey Lake Road	km 32.3 to 32.9	0.6	Reconstruction and realignment	Sept/82	100%
	K-2602	Route 12	km 2.96 to 2.98	0.2	Reconstruction and realignment	Mar/83	50%
	C-0824	Highland Valley Road	km 10.9 to 15.9	5.0	Reconstruction and realignment	July/82	15%
100 Mile House	C-1476	Highway 24	Various locations Highway 97 to Watch Lake Road No. 335	5.6	Reditching, shoulder widening and stabilization	June/82	100%
		Horse Lake Road No. 371	Lone Butte cutoff to km 23.00	18.0	Shoulder widening and stabilization	July/82	100%
		Canim-Hendrix Lake Road No. 318	km 35.0 to 36.0	1.0	Shoulder widening and stabilization	July/82	100%
	C-1564	Little Fort Highway 24	Bridge Lake North Road to Brockland Hill	3.	New construction, clearing and grubbing drilling and blasting, road bed construction, gravelling. Reconstruction, road bed widening and gravelling	July/82	70%
	C-4176	Little Fort Highway 24	Brockland Hill to District Boundary	5.0	New construction, clearing and grubbing	June/82	20%
	C-1630	Abel Lake No. 412	km 1.60 to 3.80 - Abel Lake Road	2.2	New construction, clearing, grubbing, road bed construction and gravelling.	Sept/82	100%
Kelowna	C-0130	Several roads	Area "A" - Kelowna	11.41	Sealcoating	Aug/82	100%
	C-0130	Several roads	Area "B" - Westbank	4.87	Sealcoating	Aug/82	100%
	C-0130	Several roads	Area "C" - Winfield	4.62	Sealcoating	Sept/82	100%
	C-0130	Broadview Road North	km 0.3 to 0.8	0.50	New construction	Mar/82	50%
	C-1471	Bottom Wood Lake Road	km 0.00 to 3.67	0.50	Fencing	Apr/82	20%
	C-1471	Lodge Road	km 0.60 to 1.80	1.00	Fencing and ditching	Oct/82	90%
	C-1472	Fishlake Road	km 3.90 to 7.90	4.00	Regravel	Mar/82	100%
	C-1473	Highway 97 at Commonwealth Rd.	At intersection	0.70	Construction and paving for left & right turn slots	July/82	100%
	C-3805	Swamp Road at DeHart Road	At intersection	0.58	Complete new intersection construction and paving	Aug/82	100%
	C-1620	Highway 97 and Highway 33	Several locations	2.6	Class "B" asphalt recapping	June/82	100%
	C-1621	Highway 97 and Highway 33	Several locations		Class "B" asphalt recapping	June/82	100%
	C-1622	Highway 97 and Highway 33	Several locations		Class "B" asphalt recapping	June/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
REGION 3 Nelson	C-1483	Bonnington Road	km 1.4 to 2.4	1.0	Reconstruction, widening, grade revision	May/82	75%
	C-0131	Rosebud Lake Road	km 0.4 to 2.4	2.0	Reconstruction, widening, grade revision	Sept/82	100%
	C-0504	Wildhorse Creek Road	km 1.0 to 1.5	0.5	Reconstruction, widening, grade revision	Aug/82	100%
	C-0131	Vallican Subdivision Roads	km 0.0 to 1.5	2.5	New construction	Aug/82	75%
	C-0131	Wills Road	km 0.0 to 0.4	0.4	New construction	Sept/82	60%
	C-0131	Erie Ross Spur Road	Miscellaneous	0.5	Widening and Improvement	Aug/82	70%
	C-0204	Nelson-Balfour Highway 3A	Miscellaneous	1.0	Shoulder widening and paving	July/82	100%
	C-2559	Nelson-Balfour Highway 3A	km 11.4 to 11.7	0.3	Realignment, widening and improvement	Mar/83	80%
	C-2559	Nelson-Balfour Highway 3A	km 4.9 to 5.3	0.4	Realignment, widening and improvement	Mar/83	80%
Rossland	N-0382	Rossland-Trail Highway 3B Wilcox Frontage Road	Warranted sections Protected fill section	850 m	Guardrail installation	July	100%
	C-1484	Wilcox Frontage Road, LeHue Moller, Statts and Atco Road	Roads in Fruitvale area	2.5	New pavement	Sept.	100%
	B-0254	Castlegar Ferry Ramps	Robson terminal	60 m		April	95%
Grand Forks	C-0018	North Fork Road No. 30 from Hwy. 3 N. to Hummingbird Br.	Work from km 0.00 to km 15.77 @ Bridge	15.77	Construct & Widen prepare for paving next year	Mar/83	50%
	C-0019	Gilpin Road No. 28	Work from km 3.7 to km 8.7	5.0	Shape up and apply 50 mm of 19 mm crush	May/82	100%
	C-0133	Minor Betterments Numerous District Roads	Many short sections & a few Longer Sections	—	Straighten, widen, ditch, apply base, etc. most often as preparation to receive seal coat	Apr/82	98%
	C-0838	Rock Creek Kelowna Highway 33	Reconstructed km 13.5 to km 17.6	4.1	Reconstructed, widened 3.1 km and constructed on new location 1.0 km by mid June to receive payment	Apr/82	100%
	C-1486	Rock Creek Kelowna Highway 33	Fix-up from km 17.5 to km 85.2	67.6	Widen shoulders install more culverts where required	Apr/82	50%
	C-1599 C-1487	Midway East, Boundary Road, Boundary Prov. Park, Left Turn Slots all on Crowsnest Hwy. 3	Constructed in juncture with Highway 3	2.1	Constructed by cut and fill to widen Highway 3 for a 3rd lane turn slots	Apr/82	100%
	C-1779	Junction of C.N. Highway 3 and Danville Highway 41	Work from C.N.H. km 98.3 to km 98.6 & Hwy. 41. km 0.0 to 0.2	0.5	Construct New Interchange & Left Turn Slots	Mar/83	100%
	N-0383	Crowsnest Highway 3 & Rock Creek Kelowna Highway 33	690 mm guardrail installation	0.75	Pave shoulders & install 750 m of 690 mm guardrail at 6 locations	Jan/83	100%
	W-0352	Crowsnest Highway 3	Fence renewal at various locations	10.5	Construct and reconstruct fence at 13 locations		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
New Denver	C-1488	Vernon-Slocan Highway 6	1+00 to 3+00	300 m	Reconstruction	Jan./83	96%
	C-1641	New Denver-Kaslo Highway 31A	Three Forks	100 m	100 ft. Multiplate & Road Reconstruction	Nov./82	92%
	No384	Throughout District			Guardrail	July/82	98%
Cranbrook	C-0841	Cranbrook-Kimberley-Yahk Streets and Roads	Various Locations	22.5	Reflush existing subdivision roads	July/82	100%
	C-0841	Cranbrook Roads	Various Locations	0.7	New Flushcoating	June/82	100%
	C-0135	Cranbrook-Kimberley Streets and Roads	Various Locations	1.8	New Flushcoating	June/82	100%
	C-0135	Cranbrook-Kimberley-Yahk Streets and Roads	Various Locations	1.9	Reconstruction, Widening, Grade Revision, Realignment	June/82	100%
	C-0135	Cranbrook Streets and Roads	Various Locations	1.3	New Construction	June/82	100%
	N0385	Southern Trans-Provincial Highway 3	18 km Southeast of Cranbrook	298 m	Install 69 cm No-Post Guardrail	Nov./82	100%
		Kimberley Highway 95A	12 km Northeast of Kimberley				
Fernie	C-0027	Elk Valley Highway 43	km 8.2 to 10.1	1.9	Reconstruction; shoulder widening	Aug/82	100%
	C-1123	Elk Valley Arterial 489R (Elk Valley Highway 43)	Wilson bridge km 5.5 to 5.2	0.3	Reconstruction; new diversion for Bridge Approaches & Paving	June/82	100%
	C-1633	Corbin Arterial 448R and Part of Corbin Road No. 26	km 0.0 to km 3.9	3.9	Reconstruction, gravelling, ditching & surfacing	Sept/82	100%
	C-1647	Elkford Arterial 729R (Elk Valley Road No. 43) and Fording Mine Arterial 743R	Elk Valley road & Fording Mine Road Intersection	0.5	Reconstruction; road widening for left turn lanes and paving	Oct/82	100%
	C-1489	Crowsnest Highway (Sparwood Arterial 724R)	Sparwood-Segment 1395 km 52.9 to 68.0	15.1	Shoulder Treatment	Aug/82	100%
	C-1490	Fernie Ski Hill Road No. 79	km 0.0 to 1.2	1.2	Surface treatment (Invert Prime)	Sept/82	100%
	C-0136	Minor Betterments			Sand Blast & Paint asphalt and sander plow racks in Fernie and Jaffray yard	June/82	100%
	C-0136A	Fernie, Jaffray, Sparwood Yards					
	C-0136B	Spring fence repair sundry locations	Fernie, Sparwood Jaffray Area	2.0	Repair damaged fence	Apr/82	100%
	C-0136C	Jaffray area roads		3.5	Place inverted prime	Sept/82	100%
	C-0136E	Waldo Road No. 140	km 0.0 to 3.13	3.13	Regravelling	June/82	100%
	C-0136F	Elko Sand Pit	Jaffray Area		Construct salt storage shed	Apr/82	100%
	C-0136H	Fernie, Hosmer, Elko side streets & roads		3.5	Place inverted prime	Sept/82	100%
	C-0136L	Dock Road No. 90 and Martha Road No. 170	Fernie Area	0.99	New construction; open dedicated road R/W	Sept/82	70%
	C-0136P	Kikomun-Newgate No. 36 and Rock Creek Road No. 111	Jaffray Area	7.94	Apply liquid calcium	May/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Fernie (cont'd)	C-0136V	McDonald Loop No. 158 and Sheridan Road No. 128	Jaffray Area	1.44	Reconstruction-ditching and regravelling	Apr/82	100%
	C-0136W	Hosmer Street and Roads	Fernie Area	1.0	Reconstruction, ditch and gravel	Aug/82	100%
	C-0136X	Corbin Road No. 26	km 0.0 to 1.0	1.0	Reconstruction, ditching	June/82	70%
	C-0136Y	Corbin Road No. 26	km 0.0 to 23 km	23.0	Apply liquid calcium chloride and construct railway approaches	June/82	80%
Golden	C0137A	Anderson Road No. 40	km 0.0 to km 0.9	0.9	Machine Paving	Sept/82	100%
	C0137A	Trans Canada Highway 1 East	km 19.3 to km 19.7	0.4	Machine Paving	Sept/82	100%
	C0137A	Arterial 645R	km 0.8 to km 1.2	0.4	Machine Paving	Mar/82	100%
	C0137C	Golden/Donald Upper No. 42	km 10.7 to km 11.9	1.2	Reconstruction, Realignment, Gravelling	July/82	100%
	C0137D	Blaeberry School Road No. 37	km 1.9 to km 2.7	0.8	Regravelling	July/82	100%
	C0137E	Moberly Branch Road No. 38	km 0.8 to km 2.2	1.4	Gravelling	June/82	100%
	C0137F	Holmes-Deakin Road No. 36	km 0.9 to km 1.2	0.3	Widening and Gravelling	Oct/82	100%
	C0137J	Findlay Creek Road No. 8	km 0.8 to km 2.2	1.4	Reconstruction, Realignment & Gravelling	Sept/82	100%
	C0137M	Dry Gulch Campsite No. 255	km 0.0 to km 0.2	0.2	Realignment, Reconstruction, Gravelling and Paving	May/82	100%
	C1492	Toby Cut-Off No. 28	km 0.7 to km 2.7	2.0	Reconstruction, Realignment and Grade Revision	Jan/83	100%
	C1494	Trans Canada Highway 1 West	km 27.3 to km 28.3 km 36.4 to km 36.8	1.0 0.4	Shoulder Widening	Aug/82	100%
	C1660	Trans Canada Highway 1 West	km 36.4 to km 36.8	0.4	Shoulder Widening	Nov/82	100%
Revelstoke	B1511	Balfour-Kaslo-Galena Bay Highway 31	Trout Lake Bridge approaches	0.27	New construction		75%
	C-0138A	Mychulac Road No. 205	km 0.00 to km 0.64	0.64	Reconstruction, realignment and grade revision		80%
	C-1495	Hill Creek Road No. 834	km 0.00 to km 0.93	0.93	Reconstruction, realignment and grade revision		25%
	C-0138B	Dedosenco Road No. 831	km 1.13 to km 1.91	0.78	Reconstruction, realignment and grade revision		25%
	C-0138B	Beaton-Armstrong Lake Road No. 800	km 0.60 to km 3.50	2.9	Reconstruction, realignment and shoulder widening		10%
	C-0138A	Lennard Road No. 505	km 0.00 to km 0.52	0.52	Reconstruction, double surface treatment		100%
	C-0138A	Catherwood Road No. 547	km 0.00 to km 0.37	0.37	Reconstruction, double surface treatment		100%
	C-0138A	Sunnyside No. 537	km 0.00 to km 0.16	0.16	Reconstruction, double surface treatment		100%
Creston	C-0855	Abbey	0.85 - 1.33	0.48	Road construction, ditch, gravel	July/82	90%
	C-0853	Creston/Erickson & Short Road	0.00 - 1.69	1.69	Road reconstruction, ditch, gravel	Aug/82	85%
	C-0857	Lakeview Extension	0.00 - 1.57	1.57	Road construction, rock work	May/81	20%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Creston (cont'd)	C-0031	Highway 3A	Boulder Creek approaches		Approach fill construction and old bridge removal	May/82	100%
	N-0389	Highway 3A	Boswell-sirdar	0.503	Guardrail installation	Feb/83	100%
	C-0204	Duck Creek Road	Highway 3A - North 1 km	1.0	Shoulder widening for school pedestrian	Oct/81	100%
	B-1512	Highway 21	Black Bridge over Goat River		Major Repair to Structure	Aug/82	100%
	C-0139	Minor Betterments - District	Duck Lake Rd., Uri Rd., Indian Rd. Balsam Road, Sanca Park Road, Hedstrom Road, & Riondel Road	19.0	Ditching, gravelling and drainage inst.	Apr/82	100%
	C-0852	Creston Area Roads	Lanoville Road, Wellspring Road Hollowink Road, & Packing Shed & Peterman, Evans Road	4.0	Road widening drainage correction gravel and surface treatment	May/82	100%
REGION 4 Prince George	C-1513	Trunk Highways	Yellowhead, Cariboo, John Hart	135.0	Patching, Crack sealing		100%
	C-1514	MacKenzie Arterial	North of Townsite	1.0	Reconstruction		75%
	C-1515	Arterial No. 698R	5th Avenue - Nechako Bridge	0.5	New Construction, merge lane, paved		100%
	C-1650	Yellowhead Highway 16 West	Josephine Hill	0.5	Repair slide area		100%
	C-1657	Foothills Road	South approach to Nechako River	0.5	Clearing right of way		100%
	C-1770	John Hart Highway	Bear Lake-Bedrocky Creek	10.0	Reconstruction, clearing		5%
	C-1771	Yellowhead Highway	km 13 to km 51.1	38.1	Widening, prepare for paving		100%
	C-1826	Ness Lake Road	@ Ness Lake	1.6	Reconstruction		60%
	C-4180	Upper Fraser Road	Newlands-Upper Fraser	17.6	Reconstruction		90%
	C-4181	Miscellaneous District Roads		17.7	Reconstruction, widening and gravelling		70%
	C-4184	Longworth Access Road	km 4.0 to 5.9	1.9	Reconstruction and gravelling		100%
	N-0429	Trunk Highways	Yellowhead Highway 97	1.5	Guardrail		100%
	W-0356	Schedule II Highways	Cariboo Highway 97	6.5	Fencing		100%
Quesnel	C-1516	Marsh Drive	Moffat Bridge-Avery Avenue	0.8	Utility relocation-bridge approaches		50%
	C-4156	Barkerville Highway 26	Barlow Creek Revision	1.0	Reconstruction-realignment		100%
	C-1517	Barkerville Highway 26	Various sections, Slough Cr. Wells	1.7	Guardrail Placement		100%
	C-1517A	Baker Street No. 371	Wells Townsite	0.1	Reditch - storm sewer		100%
		Mildred Avenue No. 367	Wells Townsite	0.4	Reditch - storm sewer		100%
	C-1518A	Camp Creek Road No. 330	Trapping Creek	0.2	Twin culvert install & approaches		100%
	C-1518B	Yendras Frontage Road No. 255	Cariboo Highway 97 South	0.5	New Construction		100%
	C-1518C	Cariboo Highway 97 South	McAlister Hill	0.5	Guardrail Placement		100%
	C-1518D	Quesnel Hydraulic Road No. 60	Quesnel River	0.5	Slide Stabilization		100%
	N-0430	Guardrail Program	Various roads	2.0	Guardrail Placement		100%
	C-0141A	Punchaw Road No. 86	Mud River	0.1	Culvert Installation & approaches		100%
	C-0141B	Quesnel-Hixon Road No. 23	Cottonwood River	0.3	Riprap riverbank-raise grade		100%
	C-0141C	Miscellaneous Roads	Quesnel North Foreman area	2.5	Reditching		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Quesnel (cont'd)	C-0141D	Long Road No. 234	Nazko Road No. 59	0.1	Construct pullout		100%
	C-0141E	Barkerville Highway 26	Various sections	5	Machine brushing		100%
	C-0141E	Blackwater Road No. 58	Various sections	5	Machine brushing		100%
	C-0141I	Carlson Canyon Road No. 343	Fraser Road No. 32	1.6	Reconstruction		100%
	C-0141J	White Road No. 96	Kersley	1.0	Reconstruction		100%
	C-0141K	Quesnel Hydraulic No. 60	Sterns Hill	0.2	Sight Distance Improvement		100%
	C-0141L	Miscellaneous Roads	Quesnel South Foreman area	2.5	Reditching		100%
	C-0141M	Fraser Road No. 32	Narcosli Hill-Lepetich Road	5.0	Regravelling		100%
	C-0141N	Fraser Road No. 32	Lepetich Road-Parker Road	3.0	Regravelling		100%
	C-0141R	Nazko Road No. 59	Leakes Rock Bluffs	3.0	R/W Fencing		100%
	C-0141R	Nazko Yardsite			Construct Trailer Pad Facilities		100%
	C-0141S	Grouse Road No. 321	Fraser Road-Coulthard Road	5.0	Regravelling		100%
	C-0141T	Langerquist Road No. 64	Cariboo Highway 97 South	1.8	Base Strengthening		100%
	C-0141U	Hill Bridge			Cleanout creekbed		100%
	C-0141U	Hamilton Bridge Q7823			Cleanout creekbed		100%
	C-0141W	Pedley Pit Road No. 903	Pedley Creek	1.5	Reconstruction		100%
	C-0141X	Lavoie Road	Trotter Road	1.0	Reconstruction		100%
	C-0141Y	Miscellaneous Roads	Hixon Foreman area	2.5	Reditching		100%
	C-0141	Paradise Road No. 32	Garbage dump revision	1.0	Clearing		100%
	C-0141	Swift River Gravel Reserve	Barkerville Hwy No.26		Relocate loader shed		100%
	C-0141	Smith Gravel Reserve	Blackwater Road No.58	1.0	Fencing		100%
	C-0445A	Teofil Road No. 600	Cariboo Hwy. 97 South-Eberg Road	1.0	Reconstruction		100%
	C-0445D	Fraser Road No. 32	Baker Hill "S" Curve	0.3	Construction		100%
	C-0445D	Fraser Road No. 32	Rurie Springs Slide	0.3	Reconstruction-slide area		100%
	C-0445E	Arnoldus Road No. 89	Edwards Road-White Road	0.5	Shoulder widening		100%
	C-0445E	Edwards Road No. 218	Railroad, Cariboo Highway 97 South	0.25	Reditching		100%
	C-0445E	Durrell Road No. 162	Cariboo Highway 97 South	0.1	Grade revision		100%
	C-0445F	Cariboo Highway 97 South	Kersley Rooster Boil	0.8	Install French drains		100%
	C-0445G	Teofil Road No. 600	Cariboo Hwy. 97 South-Eberg Road	0.9	Base preparation for paving		100%
	C-0445G	Eberg Road No. 395	Teofil Road-Red Bluff Road	.92	Base preparation for paving		100%
	C-0445H	Dragon Lake Road No. 45	Quesnel-Hydraulic-Johnson	1.8	Base preparation for paving		100%
	C-0445H	Johnson Road No. 15	Dragon Lake Road-Dale Lake Road	7.8	Base preparation for paving		100%
	C-0445H	Dale Lake Road No. 77	Johnson Road-Durrell Road	4.70	Base preparation for paving		100%
	C-0445H	Durrell Lake No. 162	Dale Lake Road-Cariboo Hwy 97S	1.60	Base preparation for paving		100%
	C-0445P	Milburn Lake Road No. 189	Nazko Road-Rawlings Road	2.71	Base preparation for paving		100%
	C-0445P	Rawlings Road No. 197	Nazko Road-Community Hall	1.6	Base preparation for paving		100%
	C-0445Q	Wells Road No. 237	Blackwater Road	0.32	Reconstruction		100%
	C-0445Q	Knickerbocker No. 359	Blackwater Road	0.2	Reconstruction		100%
	C-0445Q	Mills No. 211	Blackwater Road	0.32	Base preparation for paving		100%
	C-0445Q	Bouchie Lake No. 91	Blanchard Road	0.4	Widening - Base preparation for paving		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Dawson Creek		Denim Patch No. 209	km 1.28 to km 4.48	3.2	Regravel (crush)		100%
		Briar Ridge No. 4	km 3.78 to km 4.78	1.0	Regravel (crush)		100%
		Old Highway 1	km 1.53 to km 6.03	4.5	Regravel (crush)		100%
		Tate Creek Road No. 17	km 0.4 to km 4.9	4.5	Regravel (crush)		100%
		Patterson Road No. 204C	km 1.6 to km 3.1	1.5	Gravel (shale)		100%
		Tremblay Road No. 207	km 0.0 to km 1.0	1.0	Regravel (pit run)		100%
		Berry Road No. 213A	km 2.4 to km 3.5	1.1	Regravel (crush)		100%
		Chilton Subdiv. Road No. 306	km 0.0 to km 4.0	4.0	Gravel (pit run and crush)		100%
		Back Road to Dawson	km 0.0 to km 4.9	4.9	Regravel (crush)		100%
		Merrick Road No. 209	km 1.96 to km 3.96	2.0	Regravel (crush)		100%
		Valley Garden Road	km 0.0 to km 1.0	1.0	Gravel (shale)		100%
		Old Spirit River Road	km 0.76 to km 1.96	1.2	Gravel (shale)		100%
		Riverside Road	km 2.76 to km 6.76	4.0	Gravel (shale)		100%
		Swan Lake Road No. 191A	km 6.0 to km 4.0	4.0	Regravel (crush)		100%
		Moody Road No. 32A	km 2.96 to km 4.56	1.6	Gravel (pit run)		100%
		Tumlake Road No. 196	km 0.0 to km 3.0	3.0	Gravel (pit run)		100%
		Independent Road No. 193A	km 3.25 to km 3.75	0.5	Regravel (crush)		100%
		Ruscheinski Road No. 203	km 5.0 to km 5.6	0.6	Regravel (crush)		100%
		Road No. 215	km 10.4 to km 11.1	0.7	Regravel (crush)		100%
		Road No. 206	km 21.36 to 22.06	0.7	Gravel (shale)		100%
		Road No. 275	km 1.2 to km 2.0	0.8	Regravel (pit run)		100%
		Road No. 271	km 0.5 to km 3.4	2.9	Regravel (pit run)		100%
		Road No. 271	North of Highway 97 South	2.3	Regravel (pit run)		100%
		Road No. 271	North of Road No. 214	1.0	Gravel (crush)		100%
		Road No. 271	North of Willow Valley Road	1.0	Regravel (pit run)		100%
		Road No. 269	North of Road No. 208	1.0	Regravel (pit run)		100%
		Jackfish Lake Road No. 12	km 15.25 to km 21.25	6.0	Regravel (pit run)		100%
		Willis Road No. 12A	km 31.36 to km 35.66	4.3	Regravel (pit run)		100%
		Pruckl Road No. 12B	km 0.0 to km 1.2	1.2	Regravel (pit run)		100%
		Burbee Road No. 12D	km 8.0 to km 9.6	1.6	Regravel (pit run)		100%
		Clary Road No. 43	km 0.0 to km 1.5	1.5	Regravel (pit run)		100%
		Howe Road No. 66	km 0.0 to km 2.2	2.2	Regravel (pit run)		100%
		Pig Farm Road No. 83	km 0.2 to km 0.7	0.5	Regravel (pit run)		100%
		One Island Lake Road No. 18	km 14.3 to km 16.8	2.5	Regravel (crush)		100%
		Weaver Road	km 0.0 to km 1.0	1.0	Regravel (pit run)		100%
		Heritage Highway 52	km 0.0 to km 35.0	35.0	Regravel (crush)		100%
		Krantz Road No. 188	km 2.4 to km 3.9	1.5	Regravel (pit run)		100%
		Hansen Road No. 235	km 0.0 to km 1.5	1.5	Regravel (pit run)		100%
		Bandette Road No. 213S	km 0.3 to 0.8	0.5	Regravel (pit Run)		100%
		Old Hart Highway 208	km 16.09 to km 23.09	7.0	Regravel (4 km shale, 3 km crush)		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Dawson Creek (cont'd)		8th Street	North Municipal Boundary	1.5	Regravel (shale)		100%
		McQueen's Road No. 15	km 0.0 to km 6.2	6.2	Regravel (crush)		100%
		Imperial Access Road No. 221A	km 16.96 to km 17.96	1.0	Regravel (crush)		100%
		Water Treatment Road No. 221	km 34.26 to km 35.86	1.6	Regravel (shale)		100%
		Correction Line No. 212	km 0.0 to km 5.5	5.5	Regravel (crush and pit run)		100%
		Road No. 214	0.8 km east of Stewart Lake Road	2.4	Gravel (pit run)		100%
		Road No. 267	North from Road No. 214	1.6	Regravel (pit run)		100%
		Road No. 267	North from Willow Valley Road	3.2	Regravel (pit run)		100%
		Road No. 265	North from Road No. 214A	0.5	Gravel (crush)		100%
		Road No. 214	East of McLeod Road	4.4	Regravel (pit run)		100%
		Road No. 259	km 1.0 to 3.2 & km 3.2 to 4.8	3.8	Construction		85%
		Road No. 257	From Highway 97S south	1.0	Reconstruction		100%
		Road No. 255	South of Road No. 208	2.8	Reconstruction		100%
		Road No. 253	North of Road No. 208	1.6	Construct and gravel (crush)		100%
		Road No. 206	Road No. 249 to Road No. 245	3.2	Regravel (pit run)		100%
		Road No. 13	Road No. 200 south	10.0	Regravel (pit run)		100%
		Puggins Mountain Road No. 200C	South and west from No. 202	1.0	Regravel (pit run)		100%
		Road No. 245	1 km south of Puggins Mtn. Road	0.8	Reconstruct and regravel		100%
		Road No. 259	North of Road No. 214	2.4	Regravel (pit run)		100%
		Kennedy Road	km 0.00 to km 1.90	1.9	Gravel (0.7 km crush, 1.2 km shale)		100%
		McWahl Road	km 0.00 to km 1.20	1.2	Gravel (crush)		100%
		Gundy Road No. 20	km 8.05 to km 9.55	1.5	Gravel (crush)		100%
		Comer Road	km 0.00 to km 1.50	1.5	Regravel (crush)		100%
		Kutschker Road No. 197	km 3.50 to km 4.10	0.6	Regravel (crush)		100%
		Karpinsky Road	km 0.00 to km 1.00	1.0	Gravel (pit run)		100%
		Seitner Road	km 2.30 to km 2.90	0.6	Regravel (crush)		100%
		Road No. 209	km 0.00 to km 0.50	0.5	Regravel (crush)		100%
Fort St. John	C-1090	Road No. 101	Road No. 260 to Road No. 264	6.4	Paving preparation-19 mm crush surfacing		100%
	C-1090	Road No. 114	Road No. 101 to Road No. 275	9.7	Paving preparation-19 mm crush surfacing		100%
	C-1090	Old Montney Road No. 121	Road No. 254 to Road No. 114	2.4	Paving preparation-19 mm crush surfacing		100%
	C-1090	Road No. 259	Road No. 260 to Road No. 137	4.8	Paving preparation-19 mm crush surfacing		100%
	C-1090	Road No. 260	Road No. 101 to Road No. 259	3.2	Paving preparation-19 mm crush surfacing		100%
	C-1772	Miscellaneous Roads	General Various Pits in District		Winter haul and stockpiling gravel		100%
	C-0874	Miscellaneous District Roads	School Bus and Farm Roads	41.8	Regrade and Gravel		100%
	C-4484	Liard Highway (Road No. 512)	Construction North of the Fort Nelson River		d'Easum Creek Bridge		95%
	B-1422	Road No. 190	Cust Creek M.P.P. Installation		Realign & Reconstruction of Approaches		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Vanderhoof	C-0455	Willowvale Road	km 0.0 to 3.54	5.21	Fenced road right of way	Sept/82	100%
		Sackner Pit Road	km 0.0 to 3.2	3.2	Reconstruction on realignment	Dec/82	10%
	C-0553	New Nechako Bridge Approaches	km 0.0 to 7.5	7.5	New Construction	Aug/80	90%
	N-0433	Yellowhead Highway 97		0.214	Install 69 cm Concrete guardrail	Nov/82	100%
	W-0360	Schedule II Fencing	Various Locations	6.446	Construct barbed wire fences	Aug/82	100%
McBride	C-0880	Miscellaneous School Bus Routes	Various Areas		Regravelled with Pit Run and some crush	Nov/82	100%
	C-1521	Barnett Road	km 0.0 to km 1.6	1.6	New construction, right-of-way clearing 1 km of road bed construction	Nov/82	100%
	C-4237	Eddy Road No. 552	km 4.95 to km 5.1	0.15	Reconstruction of a multiplate, back filling and construct an approach	Aug/82	100%
	W-0361	Schedule II Fencing	Various Locations	4.0	New constructions	Aug/82	100%
	N-0434	Guardrail Installation	Various Locations	.17	Replace existing guardrail	Nov/82	100%
Williams Lake		Chilcotin-Bella Coola Hwy. 20	Anahim's Flat I.R. No. 1	9.5	Reconstruct, widen and realign	May/81	100%
		Chilcotin-Bella Coola Hwy. 20	Anahim I.R. to Alexis Creek	4.6	Reconstruct, widen and realign	Feb/83	80%
		Chilcotin-Bella Coola Hwy. 20	Lee's Corner to Anahim Reserve	7.6	Reconstruct, widen and realign	Feb/83	25%
		Chilcotin-Bella Coola Hwy. 20	End of pavement to Lee's Corner	8.0	Reconstruct, widen and realign	Mar/83	75%
		Chilcotin-Bella Coola Hwy. 20	Redstone Bypass	1.7	Reconstruct, widen and realign	Mar/83	100%
		Cariboo Highway 97	Pigeon Road to 150 Mile School	0.5	Reconstruction, left turn slots	Aug/82	100%
		Horsefly Road No. 419	km 26.7 to km 29.2	2.5	Reconstruction, base strengthening	Sept/81	100
		Horsefly Road No. 419	km 29.2 to km 30.2	1.0	Reconstruction, widen and realign	May/82	100%
		Likely Road No. 115	Big Lake to Beaver Valley	4.4	Reconstruction, clear and grub	Sept./82	10%
REGION 5							
Prince Rupert	C-0174	Highway 37A	Surprise Creek-Meziadin Camp	9	Reconstruction, grade revision	June/82	100%
	C-1523	Highway 16-Q.C.I.	Skidegate-Tlell		Quarry Development for rip rap	Aug/82	100%
	C-1524	Highway 37A	Rufus Creek Bridge	.2	Multiplate Construction	Sept/82	100%
	B-1436	Highway 37	Ritchie Creek Bridge	.1	New Bridge	Sept/82	62%
	K-5119	Prince Rupert Arterial 487R	New intersection-Pr. George St.	.2	New construction	Mar/83	100%
	K-5118	Prince Rupert Arterial 487R	Butze Rapid Viewpoint	.2	Reconstruction	Mar/83	100%
	K-5115	Highway 37	Cousins Creek bridge		Multiplate	Mar/83	50%
	K-5116	Highway 37A	Bear No. 2 Bridge	.2	New construction bridge approaches	Mar/83	50%
Terrace	K-5210C	Thornhill Cr. Bridge Approaches Old Lakelse Lake Road No. 53	km 3.3, Old Lakelse Lk. Rd. No. 53	1.0	Realignment, construct Bridge Approaches	Feb/83	90%
	C-1526	Kitimat Arterial 503R	km 1.6	.3	Construct left hand turn slot & pave	Aug/82	100%
	C-1785	Terrace Miscellaneous Roads	Miscellaneous Roads in Thornhill	26.5	Upgrade, surface prepare to pave	Feb/83	75%
	C-0148	Sundry locations	Minor Betterments		Building improvements, drainage improvements, road base and surface repair, landscaping	May/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Terrace (Cont'd)	C-2545	Kalum Lake Road	km 16.6 to km 38.4	22	Reconstruct, horizontal and vertical alignment to a highway standard	Nov/82	20%
	N-0391	Guardrail	Along Yellowhead Highway 16W		Change location of some existing No-Post	Sept/82	100%
	B-1405	Morrison Creek Bridge	km 6.3 on Kitimat No. 200 Village Road	-	Construct new bridge	Sept/82	100%
	B-1407	Thornhill Creek Bridge	km 3.3, Old Lakelse Lk. Rd. No. 53	-	Construct new bridge	Oct/82	100%
	B-1786	Glacier Creek Bridge	km 16.6 on Kalum Lake Road No. 3	-	Construct new bridge	Mar/82	100%
Dease Lake	C-1527	Cassiar Highway 37	Mud Hill Pit (km 479.93) to Yukon Border (km 500.63)	20.7	Reconstruction-Minor realignment and grade revision-drainage improvements and gravelling	June/82	100%
	C-1528	Atlin Street No. 46	First, Second & Third Ave. Discovery, Trainor, Pearl, and Rant Street	3.1	Reconstruction-widening. Drainage improvements and regravelling	July/82	100%
	C-1529	Cassiar Highway 37	Gnat Lake Pit (km 232.34) to Tanzilla Bridge (km 258.88)	26.54	Reconstruction-Drainage Improvements and regravelling	Aug/82	100%
	C-1530	Atlin Highway 2 & Surprise	Atlin Highway (km 0.66 to 1.5) and Surprise Lk. Rd. (km 0.0 to 0.6)	1.44	Reconstruction-realignment and grade revision-drainage improvements and gravelling	July/82	100%
Smithers	C-0497	Babine Lake Road No. 163	km 55.0 to 56.5	1.5	Complete gravelling. Build bridge approaching	Aug/82	100%
			Tangle Chain Creek		Construct Doris Lake Bridge	Sept/82	100%
			km 56.5 to km 65.5	9.0	Clearing & Grubbing	Aug/82	90%
	C-1531	Smithers Arterial 607R Yellowhead Highway 16	Between King & Queen Streets	0.4	Widen shoulder & install 690 mm No-Post Guardrail	June/82	100%
Burns Lake	C-0151A N-0393A	Colleymount No. 21	West of Noralee on Lakeside of Road-West end of Francois Lake	560 m	New Construction of Concrete Guardrail	May/82	100%
	C-0151C	Colleymount No. 21	15 km west of Francois Lake Ferry Landing	1000 m	Reconstruction - widening, grade revision & curve realignment	May/82	90%
	C-0151D	Francois Lake East No. 43	2 km east of Francois Lake Ferry Landing	1000 m	Reconstruction - widening, gravelling and fencing	June/82	100%
	C-0151E	Colleymount No. 21	Adjacent to Rat Creek 10 km west of Colleymount	3000 m	Reconstruction - regravelling	June/82	100%
	C-0151G	Howells Road No. 117	East of Topley	200 m	Reconstruction - regravelling & seeding	June/82	100%
	C-0151J	Buck Flats No. 91	South of Houston	2000 m	Reconstruction - regravelling	June/82	100%
	C-0151M	Campbell No. 4 and Mollice Lake No. 142	East of Southbank	1400 m	Reconstruction - regravelling	July/82	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Burns Lake (Cont'd)	C-0151P	Uncha Road No. 122	East of Southbank	5000 m	Reconstruction, regravelling	July/82	100%
	C-0151R	Westman Lake Drive No. 339	South of Takysie	500 m	Reconstruction, regravelling	July/82	100%
	W-0364A	Yellowhead Highway 16	Various Locations	8264 m	Schedule II Fencing	July/82	100%
REGION 6 Nanaimo	C-0152A	Long Lake Road		0.5	Reconstruct and Pave	May/82	100%
	C-0152C	Rugg Road		0.7	Reconstruction	Aug/82	100%
	C-01520	South Forks Road		0.6	Reconstruction	July/82	100%
	C-0152E	Jordan Lane		0.4	Reconstruction	June/82	100%
	C-0152F	Parkers Road		0.5	Reconstruct and Pave	Aug/82	100%
	C-0152H	Kilipi Road		0.6	Reconstruction	June/82	100%
	C-0152J	Bear Lake Road		0.7	Reconstruct and Pave	July/82	100%
	C-0152L	Berry Point Road		0.5	Reconstruct and Pave	Aug/82	100%
	C-0152N	Clam Bay Road		0.6	Reconstruct and Pave	June/82	100%
	C-1535	Lover's Lane		0.7	Reconstruct and Pave	May/82	100%
	C-1644	Koksilah Road		1.0	Reconstruct and Pave	Feb/83	100%
	C-1536	Berry Point Road		0.4	Reconstruct and Pave	Aug/82	100%
	C-0902	Riverbottom Road		0.6	Reconstruct and Pave	May/82	100%
		Holden Corso Road		0.7	Recap Paving	July/82	100%
		South Road		0.6	Recap Paving	Sept./82	100%
		Holden Corso Road		0.6	Recap Paving	Mar/83	100%
		Yellow Point Road		1.5	Recap Paving	Mar/83	100%
		Rugg Road		1.0	Paving	Mar/83	100%
		Chemainus Road		1.8	Recap Paving	Mar/83	100%
		Nanaimo Lakes Road		2.5	Paving	Mar/83	100%
		Trans Canada Highway 1		0.4	Recap Paving	Mar/83	100%
		Pleceas Road		0.3	Paving	Mar/83	100%
		Telegraph Road		1.6	Recap Paving	Mar/83	100%
		Koksilah Road		3.2	Recap Paving	Mar/83	100%
		Tzouhalem Road		2.0	Recap Paving	Mar/83	100%
		South Road		1.6	Recap Paving	Mar/83	100%
		Alvarano Road		0.9	Paving	Mar/83	100%
		Jordan's Road		1.0	Paving	Mar/83	100%
		South Shore Road		1.2	Recap Paving	Mar/83	100%
Saanich	C-0912	Highway 1 at Spencer Road	Intersection Hwy. 1 at Spencer Road	0.3	Reconstruct Intersection, widen for turn slots	June/82	100%
	C-1537	Highway 17 at Glidden Road	Glidden Road to Keating X Road	1.0	Widen for acceleration lane	Jan/83	100%
	C-1539	West Coast Road	West of Jordan River	5.0	Widening & gravelling shoulders preparatory to paving	May/82	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Saanich (cont'd)	C-1540	Millstream Road	A: Edward Bridge	0.1	Construct approaches to new bridge	Apr/82	100%
	C-1541	Lepage Road & Collins Road	North Saltspring Island	0.2	Road widening	July/82	100%
	N-0396	Highway 1 and Highway 17	Goldstream & Royal Oak areas	0.6	Guardrail replacement	Aug/82	100%
Port Alberni	C-0542	Beaver Creek Road No. 1	Deer Creek Bridge Approaches	0.5	Gravel, pave	June/82	100%
	C-0154A	Tofino-Ucluelet Highway 18	Tofino-Ucluelet area	-	Machine Patch various areas	July/82	70%
	C-0154C	John Street No. 207	Port Alberni	0.5	Prepare and pave	July/82	100%
	C-0154E	Wembley Road No. 1089	Parksville area	-	Ditch, Culvert installation	Apr/82	100%
	C-0154F	Chatsworth Road No. 476	Coombs, Hilliers area	2.2	Reconstruct	Apr/82	100%
	C-0154H	Dorcas Point Road No. 2133	French Creek Area	1.5	Prepare and pave - recap	June/82	100%
	C-0154K	Various	Alberni Foreman Area	-	Winter ditch construction	Dec/82	100%
	C-0154M	Kenmuir Road No. 1103	Qualicum bay	0.6	Reconstruct	Feb/83	100%
	C-0154N	Alberni-Parksville Highway 4	Alberni Foreman Area	0.8	Ditch Construction	Feb/83	50%
	C-0154N	Beaver Creek Road No. 1	Alberni Foreman Area	0.8	Ditch Construction	Feb/83	50%
	C-0154O	Alberni-Tofino Highway 4	Kennedy Lake-Ucluelet Yard	0.5	Shoulder widening	Feb/83	60%
	B-0334	Beaver Creek Road No. 1	Deer Creek Bridge	-	Place concrete bridge deck	July/82	100%
	J-6327	Sterling Arm Drive No. 163	Sproat Lake Area	1.8	Recap asphalt	Mar/83	100%
	J-6327	Alberni-Tofino Highway 4	Sproat Lake Section	0.1	Superelevate curve	Mar/83	100%
	J-6327	Bishop Drive No. 654	Sproat Lake Area	0.4	Prepare, pave	Mar/83	100%
	J-6327	South Drive No. 264	Sproat Lake Area	0.3	Prepare, pave	Mar/83	100%
	J-6327	Klitsa Drive No. 655	Sproat Lake Area	0.4	Prepare, pave	Mar/83	100%
	J-6327	Elkford Road No. 272	Port Alberni, east	0.3	Prepare, pave	Mar/83	100%
	J-6327	Highmoor Road No. 200	Port Alberni, east	0.4	Prepare, pave	Mar/83	60%
	J-6327	Mann Road No. 385	Port Alberni, east	0.4	Prepare, pave	Mar/83	60%
	J-6327	Willow Road No. 361	Alberni Foreman Area	0.8	Prepare, pave	Mar/83	100%
	J-6327	Locke Road No. 269	Port Alberni, east	0.2	Prepare, pave	Mar/83	100%
	J-6327	Brandon Road No. 268	Port Alberni, east	0.3	Prepare, pave	Mar/83	100%
	J-6327	Bomber Base Road No. 670	Sproat Lake area	0.3	Prepare, pave	Mar/83	100%
	J-6327	Sunset Road No. 260	Sproat Lake area	0.1	Prepare, pave	Mar/83	100%
	J-6327	Point Road No. 261	Sproat Lake area	0.1	Prepare, pave	Mar/83	100%
	J-6327	Sproat Place No. 686	Sproat Lake area	0.1	Prepare, pave	Mar/83	100%
	J-6327	Skipsey Road No. 232	Sproat Lake area	0.2	Prepare, pave	Mar/83	100%
	J-6327	Bothwell Road No. 270	Sproat Lake area	0.5	Prepare, pave	Mar/83	100%
	J-6327	Alberni-Parksville Highway 4	Alberni Foreman area	1.1	Recap asphalt	Mar/83	100%
	J-6329	Price Road No. 526	Errington	2.2	Prepare, pave	Mar/83	100%
	J-6329	Maple Lane No. 977	Parksville, east	0.5	Prepare, pave	Mar/83	100%
	J-6329	Hembrough Road No. 492	Deep Bay	0.4	Prepare, pave	Mar/83	100%
	J-6329	Gainsberg Road No. 64	Deep Bay	2.0	Recap asphalt	Mar/83	100%
	J-6329	Crossley Road No. 1100	Bowser, south	0.3	Prepare, pave	Mar/83	100%
	C-0154J	Good Year Road No. 2183	Qualicum Bay	-	Replace bridge with culvert	Aug/82	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1982/83—*Continued*

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1983
Port Alberni (cont'd)	HQ Proj.	VanDenhoek Road No. 922	Lantzville area	0.1	Prepare and pave	Aug/82	100%
	HQ Proj.	Harbt Road No. 916A	Lantzville area	0.7	Prepare and pave	Aug/82	100%
	HQ Proj.	Spring Cove Road No. 700	Ucluelet	1.4	Prepare and pave	June/82	100%
	J-6327	Bamfield Road No. 669	Bamfield	0.2	Prepare and pave	Mar/85	15%
	J-6327	Grappler Creek Road No. 668	Bamfield	0.1	Prepare and pave	Mar/83	35%
	J-6327	Bamfield	Bamfield, various roads	5.0	Ditch, regravel	Mar/83	80%
Courtenay	C-0155A	Comox Lake Road	Courtenay Foreman area	0.2	Road widening and paving	June/82	100%
	C-0155C	Misc. Roads in Courtenay area	Courtenay Foreman area	6.0	Gravelling Roads	Apr/82	100%
	C-0155D	Back Road Improvement	Courtenay Foreman area	0.3	Widening road and shoulder	July/82	100%
	C-0155E	Highways 28 and 19	Campbell River	0.2	Completion of paving curb, gutter and manhole installation	Apr/82	100%
	C-0155F	Read Island Road	Campbell River	2.0	Upgrading of the road and culvert installations	Sept/82	100%
	C-0155G	Dogwood Road	Campbell River	1.0	Pavement Widening	June/82	100%
	C-0155H	Island Highway 19 Bridge approaches Saunders Creek Road	Sayward	0.4	Repaved Bridge approaches after redecking	May/82	100%
	C-0155J	Highway 28	Gold River Foreman area	8.0	Hand brushing along the right of way	June/82	100%
	C-0155L	Quatsino Road	Port Hardy Foreman area	1.0	Replace culvert and machine brushing	July/82	100%
	C-0155M	Sundry Roads	Cortez Foreman area	1.0	Pavement	July/82	100%
	C-0155N	Island Highway 19	Sayward Foreman area	0.8	Machine Paving Patches on Island Highway	July/82	100%
	C-0155P	April Point Road	Quadra Island Foreman area	0.4	Road widening and regravelling existing road	June/82	100%
	C-0155Q	Miscellaneous Roads	Sointula Foreman area	3.0	Handbrushing, gravelling and culvert replaced	June/82	100%
	C-0155S	Denman Hill	Denman Island Foreman area	0.2	Road widening ditch construction and repaving	May/82	100%
	C-0155T	Miscellaneous Roads	Hornby Island	12.0	Handbrushing and culvert maintenance	June/82	100%
	C-0155U	Enns Ployart Road	Courtenay Foreman area	0.3	New Construction	Aug/82	100%
	C-0155Z	Miscellaneous Road	Courtenay District		Ditching, paving, road bed construction	June/82	100%
	C-1543	McDonald Road	Courtenay District	0.5	Road widening and paving	June/82	100%
	C-1544	Highway 19	Port Hardy	0.4	Construction and Paving of Cluxewe Bridge approaches	June/82	100%
	C-1545	Duncan Bay Road	Campbell River	0.3	Pavement	June/82	100%
		Courtenay Area Roads	Courtenay Foreman area	57.0	Regravelled Road	Mar/83	100%
		Courtenay Area Roas	Courtenay Foreman area	7.1	Repaved Roads	Mar/83	100%
		Miscellaneous Roads	Courtes Island Foreman area	16.0	Regravelled Roads	Mar/83	100%
		Holberg Road	Port Hardy Foreman area	10.0	Widen corners and regravel road	Mar/83	100%
		Lake Trail Road	Courtenay Foreman area	2.2	Shoulder widening and paved	Mar/83	100%

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STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS (BY CLASS) .... 170 & 171

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS (BY SURFACE TYPE) .... 172 & 173

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Class
(Classified in Bold Type)

In Kilometres

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 1										
11. North Vancouver.	Provincial	8.22	75.10	98.84	107.48	289.64	14.57	.....	.....	.....
	Classified	**51.39**	**78.65**	**13.91**	**5.35**	**149.30**	.....	.....	.....	.....
12. Gibsons.........	Provincial	.....	121.48	126.73	303.59	551.80	165.28	26.79	.....	.....
	Classified	.....	**18.95**	**.24**	**6.40**	**25.59**	.....	.....	.....	.....
14. New Westminster.	Provincial	1.23	4.73	32.23	36.16	74.35	3.46	.....	.....	.....
	Classified	**279.83**	**149.36**	**98.25**	**5.69**	**533.13**	**17.18**	.....	.....	.....
15. Chilliwack......	Provincial	269.49	4.83	149.07	415.56	838.95	45.78	74.82	20.11	139.02
	Classified	**125.17**	**58.53**	**63.87**	**1.53**	**249.10**	.....	.....	.....	.....
Regional Totals..	Provincial	278.94	206.14	406.87	862.79	1754.74	229.09	91.61	20.11	139.02
	Classified	**456.39**	**305.49**	**176.27**	**18.97**	**957.12**	**17.18**	.....	.....	.....
REGION 2										
21. Kamloops.......	Provincial	313.60	138.60	395.90	1069.70	1917.80	81.90	204.40	.....	.....
	Classified	**54.60**	.....	.....	.....	**54.60**	.....	.....	.....	.....
22. Salmon Arm.....	Provincial	194.15	.....	453.06	576.10	1223.31	126.97	.....	22.54	76.97
	Classified	**23.39**	**5.64**	**21.88**	.....	**50.91**	.....	.....	.....	.....
23. Vernon.........	Provincial	135.60	8.85	400.58	469.78	1014.81	81.96	33.60	57.92	67.57
	Classified	**52.91**	.....	**24.49**	.....	**77.40**	.....	.....	.....	.....
24. Penticton......	Provincial	297.45	.....	394.67	703.86	1395.98	55.77	111.98	29.36	149.06
	Classified	**36.16**	.....	**18.20**	.....	**54.36**	.....	.....	.....	.....
25. Merritt........	Provincial	160.57	90.08	646.21	311.70	1208.56	18.90	.....	12.39	8.05
	Classified	**5.47**	**8.49**	.....	.....	**13.96**	.....	.....	.....	.....
26. Lillooet.......	Provincial	69.20	164.80	309.60	570.80	1114.40	109.90	.....	.....	.....
	Classified	**7.60**	**9.40**	.....	.....	**17.00**	.....	.....	.....	.....
27. 100 Mile House.	Provincial	140.87	63.43	561.90	1222.59	1988.79	153.54	153.92	9.60	117.12
	Classified	**4.43**	.....	.....	**2.62**	**7.05**	.....	.....	.....	.....
29. Kelowna........	Provincial	60.60	39.31	132.80	765.52	998.23	243.95	.....	.....	.....
	Classified	**43.45**	**9.10**	**16.33**	.....	**68.88**	.....	.....	.....	.....
Regional Totals..	Provincial	1372.04	505.07	3294.72	5690.05	10861.88	872.89	503.90	131.81	418.77
	Classified	**228.01**	**32.63**	**80.90**	**2.62**	**344.16**	.....	.....	.....	.....
REGION 3										
31. Nelson.........	Provincial	165.10	41.10	135.10	372.63	713.93	37.14	.....	145.16	20.14
	Classified	**9.38**	.....	**.58**	.....	**9.96**	.....	.....	.....	.....
32. Rossland.......	Provincial	155.62	15.83	58.02	293.02	522.49	90.63	.....	5.55	.....
	Classified	**34.40**	**3.91**	**1.29**	.....	**39.60**	**2.02**	.....	.....	.....
33. Grand Forks....	Provincial	133.73	96.01	167.02	623.65	1020.41	47.22	.....	19.55	.....
	Classified	**15.39**	.....	**1.98**	.....	**17.37**	.....	.....	.....	.....
34. New Denver.....	Provincial	162.60	148.40	73.30	314.40	698.70	57.54	.....	279.52	67.20
	Classified	**4.30**	**7.10**	.....	.....	**11.40**	.....	.....	.....	.....
35. Cranbrook......	Provincial	217.00	.....	218.90	567.70	1003.60	64.10	.....	19.30	.....
	Classified	**15.60**	.....	**4.00**	.....	**19.60**	.....	.....	.....	.....
36. Fernie.........	Provincial	114.47	21.45	96.02	394.88	626.82	313.32	.....	.....	.....
	Classified	**30.51**	**11.02**	**19.77**	.....	**61.30**	**1.97**	.....	.....	.....
37. Golden.........	Provincial	260.40	.....	5.60	507.40	773.40	95.70	.....	274.10	74.00
	Classified	**9.00**	.....	**3.20**	.....	**12.20**	**2.50**	.....	.....	.....
38. Revelstoke.....	Provincial	71.32	110.76	13.35	245.57	441.00	28.68	.80	15.93	83.85
	Classified	**8.99**	**1.39**	**14.03**	.....	**24.41**	.....	.....	.....	.....
39. Creston........	Provincial	180.17	13.31	57.12	297.76	548.36	37.23	.....	.....	.....
	Classified	**5.36**	.....	**2.03**	.....	**7.39**	.....	.....	.....	.....
Regional Totals..	Provincial	1460.41	446.86	824.43	3617.01	6348.71	771.36	.80	759.11	245.19
	Classified	**132.93**	**23.42**	**46.88**	.....	**203.23**	**6.49**	.....	.....	.....

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Class
(Classified in Bold Type)

In Kilometres

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 4										
41. Prince George...	Provincial	417.73	45.58	153.21	870.91	1487.43	288.67	.....	.....	.....
	Classified	**57.88**	**20.44**	.....	.....	**78.32**	.....	.....	.....	.....
42. Quesnel.........	Provincial	174.30	79.80	521.70	1410.85	2186.65	93.16	93.86	288.11	535.90
	Classified	**7.72**	**.15**	**6.75**	**.38**	**15.00**	.....	.....	.....	.....
43. Dawson Creek....	Provincial	341.16	51.20	1705.70	491.55	2589.61	2020.89	.....	.....	.....
	Classified	**32.22**	**68.00**	**1.72**	.....	**101.94**	.....	.....	.....	.....
44. Fort St. John...	Provincial	69.60	124.22	1514.60	739.33	2447.75	1281.10	.....	.....	.....
	Classified	**7.58**	**22.63**	**33.97**	**12.70**	**76.88**	.....	.....	.....	.....
45. Vanderhoof......	Provincial	116.37	53.50	545.27	714.30	1429.44	331.58	297.85	416.68	233.45
	Classified	**27.70**	**11.95**	**7.87**	.....	**47.52**	.....	.....	.....	.....
46. McBride.........	Provincial	.....	355.93	.....	384.96	740.89	31.03	.....	.....	.....
	Classified	.....	**1.19**	**2.32**	.....	**3.51**	.....	.....	.....	.....
47. Williams Lake...	Provincial	64.38	455.99	162.62	2354.79	3037.78	109.75	596.89	90.67	268.59
	Classified	**3.57**	**3.12**	**7.40**	.....	**14.09**	.....	.....	.....	.....
Regional Totals...	Provincial	1183.54	1166.22	4603.10	6966.69	13919.55	4156.18	988.60	795.46	1037.96
	Classified	**136.67**	**127.48**	**60.03**	**13.08**	**337.26**	.....	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	15.81	300.04	.....	150.20	466.05	109.09	54.48	53.27	.....
	Classified	**42.05**	**52.96**	**4.20**	.....	**99.21**	.....	.....	.....	.....
52. Terrace.........	Provincial	136.54	51.11	100.06	162.49	450.20	139.77	133.31	.....	57.49
	Classified	**5.95**	**6.60**	**6.30**	.....	**18.85**	.....	.....	.....	.....
53. Dease Lake......	Provincial	.....	566.71	45.96	259.77	872.44	.50	1281.90	.....	.....
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers........	Provincial	255.13	.....	177.77	606.20	1039.10	135.59	611.42	28.48	435.23
	Classified	**13.73**	.....	**1.02**	**7.30**	**22.05**	.....	.....	.....	.....
55. Burns Lake......	Provincial	123.10	22.20	422.40	441.60	1009.30	94.90	.....	.....	137.60
	Classified	**36.20**	**.70**	**2.30**	.....	**39.20**	.....	.....	.....	.....
Regional Totals...	Provincial	530.58	940.06	746.19	1620.26	3837.09	479.85	2081.11	81.75	630.32
	Classified	**97.93**	**60.26**	**13.82**	**7.30**	**179.31**	.....	.....	.....	.....
REGION 6										
61. Nanaimo.........	Provincial	92.15	36.00	353.65	684.60	1166.40	102.58	18.40	28.32	22.40
	Classified	**48.34**	**9.33**	**6.94**	**25.00**	**89.51**	.....	.....	.....	.....
62. Saanich.........	Provincial	23.24	71.00	242.46	789.08	1125.78	129.16	.....	.....	69.26
	Classified	**37.35**	**34.98**	**27.49**	**1.11**	**100.93**	.....	.....	.....	.....
63. Port Alberni....	Provincial	174.10	43.50	35.30	654.00	906.90	418.10	29.90	7.20	.....
	Classified	**16.31**	**10.60**	.....	.....	**26.91**	.....	.....	.....	.....
64. Courtenay.......	Provincial	286.52	154.30	43.40	934.48	1418.70	176.10	376.80	.....	106.10
	Classified	**33.85**	**30.19**	.....	**26.20**	**90.24**	.....	.....	.....	.....
Regional Totals...	Provincial	576.01	304.80	674.81	3062.16	4617.78	825.94	425.10	35.52	197.76
	Classified	**135.85**	**85.10**	**34.33**	**52.31**	**307.59**	.....	.....	.....	.....
Totals............	Provincial	5401.52	3569.15	10550.12	21818.96	41339.75	7335.51	4091.18	1823.76	2669.00
	Classified	**.187.78**	**634.38**	**412.23**	**94.28**	**2328.67**	**23.67**	.....	.....	.....
Grand Totals......	Provincial & Classified	6589.30	4203.53	10962.35	21913.24	43668.42	7359.18	4091.18	1823.76	2669.00

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

In Kilometres

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 1										
11. North Vancouver.	Provincial	2.00	117.22	55.91	113.59	.92	289.64	6.58	7.99	14.57
	Classified	.....	**144.85**	.....	**4.45**	.....	**149.30**	.....	.....	.....
13. Gibsons..........	Provincial	.....	272.87	97.00	163.73	18.20	551.80	19.91	145.37	165.28
	Classified	.....	**24.71**	**.88**	.....	.....	**25.59**	.....	.....	.....
14. New Westminster.	Provincial	2.67	50.15	12.75	8.57	.21	74.35	3.12	.34	3.46
	Classified	**1.49**	**512.39**	**16.54**	**2.71**	.....	**533.13**	**3.74**	**13.44**	**17.18**
15. Chilliwack......	Provincial	.....	465.25	69.94	231.10	72.66	838.95	33.57	12.21	45.78
	Classified	**1.88**	**215.98**	**29.71**	**1.53**	.....	**249.10**	.....	.....	.....
Regional Totals...	Provincial	4.67	905.49	235.60	516.99	91.99	1754.74	63.18	165.91	229.09
	Classified	**3.37**	**897.93**	**49.13**	**8.69**	.....	**957.12**	**3.74**	**13.44**	**17.18**
REGION 2										
21. Kamloops........	Provincial	.....	340.20	332.50	1014.60	230.50	1917.80	78.50	3.40	81.90
	Classified	.....	**54.60**	.....	.....	.....	**54.60**	.....	.....	.....
22. Salmon Arm......	Provincial	.....	361.88	163.28	560.24	137.91	1223.31	78.77	48.20	126.97
	Classified	.....	**50.91**	.....	.....	.....	**50.91**	.....	.....	.....
23. Vernon..........	Provincial	.....	254.30	210.95	489.91	59.65	1014.81	.....	81.96	81.96
	Classified	.....	**65.57**	**11.83**	.....	.....	**77.40**	.....	.....	.....
24. Penticton.......	Provincial	.....	364.90	407.64	438.29	185.15	1395.98	.....	55.77	55.77
	Classified	.....	**49.06**	**5.30**	.....	.....	**54.36**	.....	.....	.....
25. Merritt.........	Provincial	.....	200.18	249.47	466.95	291.96	1208.56	13.54	5.36	18.90
	Classified	.....	**8.97**	**4.99**	.....	.....	**13.96**	.....	.....	.....
26. Lillooet........	Provincial	.....	89.30	208.30	790.80	26.00	1114.40	5.20	104.70	109.90
	Classified	.....	**17.00**	.....	.....	.....	**17.00**	.....	.....	.....
27. 100 Mile House..	Provincial	.....	296.07	139.84	1270.01	282.87	1988.79	115.24	38.30	153.54
	Classified	.....	**6.51**	**.54**	.....	.....	**7.05**	.....	.....	.....
29. Kelowna.........	Provincial	.....	523.44	156.14	280.54	38.11	998.23	212.49	31.46	243.95
	Classified	.....	**60.62**	**8.26**	.....	.....	**68.88**	.....	.....	.....
Regional Totals...	Provincial	.....	2430.27	1868.12	5311.34	1252.15	10861.88	503.74	369.15	872.89
	Classified	.....	**313.24**	**30.92**	.....	.....	**344.16**	.....	.....	.....
REGION 3										
31. Nelson..........	Provincial	.30	254.38	120.70	277.03	61.52	713.93	1.60	35.54	37.14
	Classified	**.30**	**9.66**	.....	.....	.....	**9.96**	.....	.....	.....
32. Rossland........	Provincial	.42	243.70	113.87	136.93	27.57	522.49	18.98	71.65	90.63
	Classified	.....	**39.60**	.....	.....	.....	**39.60**	.....	**2.02**	**2.02**
33. Grand Forks.....	Provincial	.....	162.70	314.22	327.72	215.77	1020.41	19.08	28.14	47.22
	Classified	.....	**17.37**	.....	.....	.....	**17.37**	.....	.....	.....
34. New Denver......	Provincial	.....	104.90	251.90	240.00	101.90	698.70	2.76	54.78	57.54
	Classified	.....	**3.50**	**7.90**	.....	.....	**11.40**	.....	.....	.....
35. Cranbrook.......	Provincial	.....	263.40	113.20	401.50	225.50	1003.60	12.70	51.40	64.10
	Classified	.....	.....	**15.60**	**4.00**	.....	**19.60**	.....	.....	.....
36. Fernie..........	Provincial	.....	156.17	128.09	208.18	134.38	626.82	73.24	240.08	313.32
	Classified	.....	**60.17**	.....	**1.13**	.....	**61.30**	**1.97**	.....	**1.97**
37. Golden..........	Provincial	.....	325.00	117.70	296.80	33.90	773.40	77.00	18.70	95.70
	Classified	.....	**12.20**	.....	.....	.....	**12.20**	.....	**2.50**	**2.50**
38. Revelstoke......	Provincial	.....	81.24	222.90	101.85	35.01	441.00	26.33	2.35	28.68
	Classified	.....	**19.02**	**5.39**	.....	.....	**24.41**	.....	.....	.....
39. Creston.........	Provincial	1.08	223.58	120.77	156.82	46.11	548.36	13.36	23.87	37.23
	Classified	.....	**7.39**	.....	.....	.....	**7.39**	.....	.....	.....
Regional Totals...	Provincial	1.80	1815.07	1503.35	2146.83	881.66	6348.71	245.05	526.51	771.56
	Classified	**.30**	**168.91**	**28.89**	**5.13**	.....	**203.23**	**1.97**	**4.52**	**6.49**

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

In Kilometres

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 4										
41. Prince George...	Provincial	.....	476.71	113.07	690.40	207.25	1487.43	146.19	142.48	288.67
	Classified	.....	**68.74**	.....	**9.58**	.....	**78.32**	.....	.....	.....
42. Quesnel.........	Provincial	.....	491.14	13.28	1323.91	358.32	2186.65	58.00	35.16	93.16
	Classified	**.34**	**14.66**	.....	.....	.....	**15.00**	.....	.....	.....
43. Dawson Creek....	Provincial	.....	419.24	32.90	1754.50	382.97	2589.61	50.52	1970.37	2020.89
	Classified	.....	**33.94**	.....	**68.00**	.....	**101.94**	.....	.....	.....
44. Fort St. John...	Provincial	.....	255.07	46.20	1733.08	413.40	2447.75	47.90	1233.20	1281.10
	Classified	.....	**62.58**	.....	**14.30**	.....	**76.88**	.....	.....	.....
45. Vanderhoof......	Provincial	.....	264.39	4.10	1068.06	92.89	1429.44	102.04	229.54	331.58
	Classified	.....	**43.05**	.....	**4.47**	.....	**47.52**	.....	.....	.....
46. McBride.........	Provincial	.....	334.65	94.76	245.56	65.92	740.89	17.99	13.04	31.03
	Classified	.....	**2.45**	**1.06**	.....	.....	**3.51**	.....	.....	.....
47. Williams Lake...	Provincial	.....	447.45	4.89	1403.66	1181.78	3037.78	72.36	37.39	109.75
	Classified	.....	**14.09**	.....	.....	.....	**14.09**	.....	.....	.....
Regional Totals...	Provincial	.....	2688.65	309.20	8219.17	2702.53	13919.55	495.00	3661.18	4156.18
	Classified	**.34**	**239.51**	**1.06**	**96.35**	.....	**337.26**	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	.....	256.06	.....	181.99	28.00	466.05	32.81	76.28	109.09
	Classified	.....	**95.05**	.....	**4.16**	.....	**99.21**	.....	.....	.....
52. Terrace.........	Provincial	.....	237.04	7.29	203.02	2.85	450.20	49.79	89.98	139.77
	Classified	.....	**18.83**	.....	.....	.....	**18.83**	.....	.....	.....
53. Dease Lake......	Provincial	.....	32.36	147.38	585.02	107.68	872.44	.....	.50	.50
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers........	Provincial	.....	228.98	7.68	763.63	38.81	1039.10	16.60	118.99	135.59
	Classified	.....	**20.94**	**.69**	**.42**	.....	**22.05**	.....	.....	.....
55. Burns Lake......	Provincial	.....	242.20	.....	585.70	181.40	1009.30	58.70	36.20	94.90
	Classified	.....	**39.20**	.....	.....	.....	**39.20**	.....	.....	.....
Regional Totals...	Provincial	.....	996.64	162.34	2319.36	358.75	3837.09	157.90	321.95	479.85
	Classified	.....	**174.04**	**.69**	**4.58**	.....	**179.31**	.....	.....	.....
REGION 6										
61. Nanaimo.........	Provincial	.....	512.50	283.80	368.95	1.15	1166.40	4.58	98.00	102.58
	Classified	.....	**89.51**	.....	.....	.....	**89.51**	.....	.....	.....
62. Saanich.........	Provincial	.....	326.48	427.50	351.23	20.57	1125.78	12.08	117.08	129.16
	Classified	.....	**83.11**	**17.82**	.....	.....	**100.93**	.....	.....	.....
63. Port Alberni....	Provincial	.....	458.40	126.50	320.80	1.20	906.90	10.30	407.80	418.10
	Classified	.....	**23.23**	**3.68**	.....	.....	**26.91**	.....	.....	.....
64. Courtenay.......	Provincial	.40	652.80	320.30	440.00	5.20	1418.70	11.95	164.15	176.10
	Classified	.....	**77.63**	**11.00**	**1.61**	.....	**90.24**	.....	.....	.....
Regional Totals...	Provincial	.40	1950.18	1158.10	1480.98	28.12	4617.78	38.91	787.03	825.94
	Classified	.....	**273.48**	**32.50**	**1.61**	.....	**307.59**	.....	.....	.....
Totals............	Provincial	6.87	10786.30	5236.71	19994.67	5315.20	41339.75	1503.78	5831.73	7335.51
	Classified	**4.01**	**2067.11**	**141.19**	**116.36**	.....	**2328.67**	**5.71**	**17.96**	**23.67**
Grand Totals......	Provincial **& Classified**	10.88	12853.41	5377.90	20111.03	5315.20	43668.42	1509.49	5849.69	7359.18

REPORT OF THE CHIEF RECORDS CLERK

C.E. Parker

During the 1982/83 Fiscal Year, the General Office had representatives attend Postal Seminars in Victoria, B.C.

The General Office was also charged with the responsibility of the Ministry's Courier Service requirements.

The office received 163 tendered jobs.

ADMINISTRATION AND SERVICES DEPARTMENT

REPORT OF THE INSURANCE AND CLAIMS OFFICER

G.A. Cavin

The number of traffic accidents involving vehicles owned by (or leased to) the government was 1,579, including 159 in which the government vehicles were parked. In the previous year there were 2,145 accidents.

MOTOR VEHICLES INVOLVED IN ACCIDENTS

(1981/82 figures in parentheses)

Ministry	Number of Accidents		Number of Vehicles		Per Cent of Vehicles		Per Cent of Accidents	
Agriculture and Food	22	(32)	250	(184)	2.3	(1.8)	1.4	(1.5)
Attorney General	123	(182)	940	(966)	8.5	(9.2)	7.7	(8.4)
Consumer and Corporate Affairs	6	(12)	54	(58)	.5	(0.5)	.4	(0.6)
Liquor Distribution Branch	4		22		.2		.2	
Energy, Mines and Petroleum Resources	17	(15)	123	(109)	1.1	(1.0)	1.1	(0.7)
Environment	90	(78)	602	(690)	5.5	(6.5)	5.6	(3.6)
Finance	7	(11)	73	(64)	.7	(0.6)	.4	(0.5)
Forests	416	(489)	1,507	(1,740)	13.7	(16.5)	25.9	(22.7)
Health	198	(263)	(1,050)	(973)	9.5	(9.2)	12.3	(12.2)
Human Resources	84	(121)	491	(502)	4.5	(4.8)	5.2	(5.6)
Labour	15	(32)	195	(184)	1.8	(1.8)	.9	(1.5)
Lands, Parks and Housing	63	(91)	488	(453)	4.4	(4.3)	3.9	(4.2)
Provincial Secretary and Government Services	25	(42)	110	(111)	1.0	(1.0)	1.6	(1.9)
Transportation and Highways	532	(776)	5,040	(4,431)	45.8	(42.0)	33.1	(36.3)
Tourism	2	(12)	32	(79)	.3	(0.8)	.1	(0.6)
All Other Ministries	1		22		.2		.2	
TOTAL	1,607*	(2,156)	11,007	(10,542)	100.0	(100.0)	100.0	(100.0)

* There were 10 accidents involving two or more vehicles of different ministries.
There were 78 accidents involving two or more vehicles of the same ministry.

Recovered from the Insurance Corporation of British Columbia and other automobile liability insurers, was an amount of $426,608 for damages to government vehicles.

Claims other than those arising out of accidents involving government motor vehicles resulted in recovery of repair costs of $1,042,650 in 678 incidents for damages to guardrails, bridges, signs, lamp or signal standards, fences, posts and miscellaneous items such as flagging, cleanup of spills, pavement repairs and vandalism.

Some of the major items of recovery were $51,129 for damages arising out of the collision of a barge with the Oak Street Bridge; $46,162 for repairs of bridge panels in the Dease Lake Highways District; $13,718 for overhead bridge structure damage in Courtenay Highways District.

Included in these recoveries were eight claims against insurance policies purchased by the government, totalling $162,331. Two major claims were $73,250 for damages resulting from a fire at the Provincial Museum carving shed and $77,182 for damage sustained during the capsizing of a drilling barge.

Not included in the foregoing are 21 claims arising from the transferring of government employees, 116 of these being for damage to household effects, and five for damage to mobile homes. The amount recovered from the Provincial Government's insurers and the carriers totalled $46,102.

The total paid out for 170 miscellaneous third-party claims was $59,444 including $4,557 for six claims handled on behalf of British Columbia Steamship Company. $17,680 was paid out for claims arising from operations of ministry ferries. The largest single claim paid out was $11,000 for injuries sustained aboard a Highways ferry.

In 52 law suits in which the government was the defendant, 22 were settled out of court, four were withdrawn, 11 were dismissed, three judgments were given in favour of the plaintiff, eight were discontinued, one judgment for the Crown, three in which the Crown was 25% liable.

In 12 cases in which the government was plaintiff, eight were settled out of court, one was discontinued, one was withdrawn, one judgment was 80% for the Crown, one judgment was 100% for the Crown.

There are presently 126 cases in various stages of litigation, the government being the plaintiff in 36 of these.

PREMIUMS PAID FOR INSURANCE PLACED DURING 1982/83

B.C. Steamship Co. (1975) Ltd.	$ 54,789.25
Ministry of Transportation and Highways	261,489.19
Commissions and other ministries	228,749.64
TOTAL	$ 545,028.08

HIGHWAYS OPERATIONS

REPORT OF THE DIRECTOR OF HIGHWAYS DESIGN AND SURVEYS

E.F. Readshaw, P. Eng.

Program

Highway designs and surveys worked on during the fiscal year April 1, 1982 to March 31, 1983 are listed in this report. There are 310 projects representing 1 916 km of two and four lane highways.

Design Activities

Of the designs completed, 10 major projects representing 34.27 km, were awarded to contract and 74 projects for construction by the Ministry's own forces, representing 187 km of minor highway or accesses.

The year has seen major design activity continued on the new Annacis Crossing project. The work is being carried out partly by consultants to the Ministry and partly by the Ministry's own forces, the latter mainly the survey field work. While the main alignment of the new route has now been fixed there remain many different choices for the location of roads connecting the main line to the existing road system in the lower mainland, and the Design and Surveys Branch personnel are producing alternative layouts for these proposals. Environmental studies of the area are being carried out and a major study of the salmon movements in the Fraser River as they may be affected by the new bridge crossing has revealed some interesting relationships with the river flows and tidal effects. Protection works for the bridge piers are being designed in accordance with the study findings.

Work also continues on the Coquihalla route which will create a cost-effective alternative to the increasingly congested Trans-Canada Highway. The savings in time and fuel consumption are estimated to amount to approximately $20 million per year. The extension of the route from Merritt to Kamloops will, however, be essential if the benefits are to be fully realized and preliminary design studies are being carried out on this.

The Squamish Highway, built in 1957 to a somewhat lower standard than most modern routes is now seriously in need of upgrading. Traffic volumes are now close to the design capacity of this two-lane road and the frequent occurrence of debris flows on the many steeply falling streams crossing the highway make it essential to upgrade the bridge and culvert crossings. The magnitude of these relatively infrequent events was not realized in the early days and it is only in recent years that studies of similar events in other parts of the world have shown that special design methods for dealing with these flows are required. Added to this is the greatly increased risk to users because of the increased volumes of traffic. The highway must, therefore, be upgraded both to carry the increased traffic and to deal with the increased risks. Studies are underway to determine if another route should be constructed or the existing route reconstructed to four-lanes. Indications are, however, that an alternative route would be more costly and would have the same kinds of natural hazards as the existing one, nor could the existing route be abandoned as it now serves people and communities all along its length.

The Okanagan Highway 97 is another route requiring massive upgrading effort. Four-lane designs are underway for most of the road between Penticton and Vernon. Again, the question of alternative routes arises but the nature of the linear development along the existing road makes it necessary to continue to upgrade it to carry the demand volumes.

The above examples serve to indicate the continuing problem of keeping pace with development in the province with its growning population of automobile users, a problem which in spite of the recent downturn in the economy does not appear to be diminishing in proportion.

The following table is a listing of the projects being designed and shows the three principal stages of investigation. Preliminary Studies being work carried out to determine the most acceptable and feasible alignment, Survey which consists of field work to obtain engineering detail, and: Design in which final detailed plans are prepared for construction.

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1					
Capilano Interchange	0.5	100			Upgrading for 6 Lane Freeway Design
Capilano - Lynn Valley (including Westview and Lonsdale)	6.9		92	60	6 Lane Freeway Design
Lynn Valley Interchange	0.5	100			Upgrading for 6 Lane Freeway Design

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1 - continued					
Cassiar Street Study	2.0	88	95		Environmental and Social Study
Sumas Canal to Vedder Canal	3.0	100			
Vedder Interchange (Old Yale Road)	0.8	80			
Sardis Interchange	1.6	5	100		
Gibsons Road Overpass Approaches	0.6		100	100	Elimination of Grade Intersection
Annis Road Interchange	0.5		75		Elimination of Grade Intersection
Chilliwack to Junction 9 Weigh Scale	1.1	100			New Weigh Scale Site to Replace Haig Site on Highway 9
Wahleach Power Station-Jones Creek	9.6		100	30	4 Lane Design
Floods to Hope Railway Relocation No. 6	15.6		100	99	4 Lane Design
Hope Bridge Approaches	1.5		98		Curve Improvement
Gordon Creek Site Plan	0.5		100	100	New Bridge Replacing Washed Out Culvert
Texas Creek Site Plan	0.5		100	91	New 4 Lane Bridge
CNR Encroachment at Shaw Springs	0.20		100	100	Bin Wall
Cache Creek-D.L. 8	13.0		100		4 Lane Design
CPR Grade Separation (East Junction at Savona)	0.44		100	40	
Savona Hill to Cherry Creek Passing Lanes D.L. 824 to Section 27	3.2		100		
Cherry Creek-SW 1/4, S.9, T.20, R.19	6.7		100	95	Upgrading Existing to 4 Lanes
SW 1/4, Sec. 9, Tp. 20, R. 19 - Cornwall Lodge	3.9		100	40	4 Lane Relocation
Cedar Heights-Shuswap Estate and Relocation of TCH No. 1	2.0		65		New Intersection & Relocation of TCH
Shuswap Avenue-40th Street NW (Salmon Arm)	4.6	90			4 Lane Curb and Gutter
Malakwa West Entrance	1.2		95	95	Left-Turn Slot
Highway 1 Junction Craigellachie-Lybarger	1.2		95	90	Left-Turn Slot
Oregon Jack - Cache Creek	40.0		100	95	4 Lane Design
Three Valley Gap	1.0		100		Upgrade Intersection Study
Revelstoke (Highway 23 and Victoria Road West Interchange)	2.2	100			Proposed Interchange to Replace Intersection
Revelstoke (Highway 23 and Victoria Road West Intersection)	0.5		90	10	Improve Grade Intersection
Golden - Yoho Bridge	11.0	100	75		4 Lane Design
East of Yoho Bridge	4.0		50	10	4 Lane Design
Thetis Overhead to Spencer Road	15.0	55			Study for Future Multilane
Malahat (Peden Hill) (km 20.0 to km 21.5)	2.2		100	97	4 Lane Passing Section
Mill Bay - Duncan	15.0		64		4 Lane and Frontage Roads
Beverly Street Intersection (Duncan Area)	0.3		100	95	New Intersection
Tourist Information Site Access (Boatland)	0.6		100	95	New Intersection
Westdowne Road - Ladysmith	6.4		100	95	4 Lane Design
Ladysmith - Carmichael Road	6.4		100	99	4 Lane Design
Nicol Street, Nanaimo (South Street - Grace Street)	1.8	66	27		4 Lane Design
Nanaimo Couplet Terminal/Wallace (Grace Street - George Pearson Bridge)	1.5	65	23		Urban Improvement
Cypress Street - B.C. Ferry Terminal	1.2		100	2	4 Lane Curb and Gutter

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1A					
Langley (Railway Separation)	0.6	80			Study for Railway Overpass
Kingsway (Edmonds 10th Avenue)	1.13		98	69	6 Lane Curb and Gutter
HIGHWAY 3					
Hope - Nicolum Creek	8.8		100	21	4 Lane Design
Hope - Princeton (Nicolum Creek Bridge Site)	1.0		80	75	4 Lane Bridge
Rhododendron Flats				100	4 Lane Passing Section. Turn Slot Required
Manning Park Boundary - Mile 19	6.2	50			4 Lane Design
Mile 19 - Mile 29	12.4	45			4 Lane Design
D.L. 980 to Princeton	5.6		100	80	4 Lane Design
Stirling Creek to Hedley	8.0		100	95	4 Lane Design
Hedley to Winters Creek	6.11		99	20	4 Lane Design
Winters Creek to D.L. 1970	3.2		80		4 Lane Design
D.L. 1970 to Shoemaker Creek	3.2		99		4 Lane Design
Keremeos East Approaches	1.6		100		4 Lane Design
Keremeos Bypass	3.2				Grid Road
Midway Railway Crossing	1.0		60		Curve Improvement
East of Christina Lake	1.0		100		4 Lane Design
Castlegar Interchange	1.0		100	40	Upgrade Interchange Highway 3 and Columbia Street
Salmo - Creston Summit Revision	6.0		100	90	Avalanche Avoidance
Creston Bypass Alice Siding-Arrow Creek	10.6		100	96	New 2 Lane Design
Upper Moyie Lake Section	6.0		100	5	Alignment Improvement
Highway 3 and 95A Interchange at Cranbrook	2.0		100	50	Replace Grade Intersection
CPR Hill Project Wardner Area	2.0		100	40	Truck Lane
Elko - Morrissey	7.5		25	12	Alignment Improvements
Highway 3 and Erickson Road Intersection	1.0		60		Intersection Improvement
Michel Mouth Bridge to Old Town (Michel Bridge)	3.0		100		
HIGHWAY 3A					
Keremeos to Kaleden (D.L. 1711 to D.L. 2769)	3.2				4 Lane Design
Keremeos Creek Road to Twin Lakes Golf Course					4 Lane Design
Keremeos to Kaleden (Twin Lake Yellow Lake)	0.8	1	100		4 Lane through I.R. 2 and I.R. 9
Shoreacres Intersection	1.0		100	80	
Nelson Bridge - km 2	2.0		100	65	Alignment Improvement
HIGHWAY 3B					
Trail - Glenmerry	3.0		100	45	4 Lane Design
HIGHWAY 4					
Cameron River - Alberni Junction	9.6		99		Alignment Improvement
Cameron Lake	5.4		100	95	Alignment Improvement
Lockwood Creek - Cameron River	10.1		99	80	Alignment Improvement
Whiskey Creek - Lockwood Creek	4.98		99		Alignment Improvement
Johnson Road Curb and Gutter	1.0		100	80	4 Lane Design Urban

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 5					
Paul Creek to Heffley Creek	19.3		100	65	4 Lane Design
Paul Creek to Heffley Creek Weigh Scale to CN Junction	3.2		100	100	4 Lane Design
Preachers Hill to D.L. 810	3.2		100	10	2 Lane Alignment Improvement
Shumway Lake - Junction Hwys 1 & 5	16.0		95		4 Lane R/W Study
HIGHWAY 6					
Aberdeen Road to Ricardo Road East of Vernon	3.7		90	10	4 Lane Design
Dutchman Creek - Monashee Creek Heckman Creek Slide	1.0		5		2 Lane Alignment Upgrade
Vernon Highway 27th Street to 32nd Avenue			85		4 Lane Curb and Gutter & Railway Overpass
Cape Horn to Cory Creek, Slocan Bluff	5.92		100	98	2 Lane Alignment Upgrade
Cory Creek - D.L. 1474	6.4		100	55	2 Lane Alignment Upgrade
Fauquier - Burton Slides Revision	3.0		15		
Inonoaklin Crossing - Deep Creek	12.0		100	60	2 Lane Alignment Upgrade
Needles - Bench Creek	16.0	50			2 Lane Alignment Upgrade
HIGHWAY 7					
Mary Hill Bypass, Section 2	8.0		85	100	New 4 Lane Route
Cape Horn to Colony Farm	2.0			60	Interchange Upgrade
CPR Overpass Widening Cape Horn Interchange	0.5			70	Interchange Upgrade
Haney to Whonnock (Haney-Albion)	7.0		100	100	4 Lane Design
Whonnock to Silverdale	5.0		100	70	4 Lane Design
Silverdale Creek - Hurd Road	7.4		95	75	4 Lane Design Urban
Mission Roadworks, Sections 2 & 3 North Approaches to Mission Bridge	0.3		100	100	
HIGHWAY 7A					
Barnet Highway, Sperling Avenue to D.L. 114	4.5		68	43	4 Lane Design
Port Moody Grid Roads	8.0	30			New Arterial Route
Barnet Highway, D.L. 114 to St. Johns St.	4.4		68	44	4 Lane Design
HIGHWAY 8					
Spences Bridge, Merritt Bridge Sites	1.0		100	10	
HIGHWAY 11					
"C" Street to Mclure via Beck	4.8		35	50	New 4 Lane Route
HIGHWAY 12					
Lillooet - Station Road Overpass of BCR	0.7		100	99	
HIGHWAY 14					
Sooke Road Passing Lanes (Humpback Road, Section 10)	2.5		100	15	4 Lane Design
Sooke Passing Lanes (Kangaroo Road - Connie Road)	2.0		90	15	4 Lane Design
Kirby Creek Bridge and Approaches	0.8		100	90	New Bridge
Jordan River - Port Renfrew Mile 11.5 to Mile 18.5	11.3		100	30	Upgrade 2 Lane Road
Jordan River Bridge Approaches	0.8		100		New Bridge

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 16					
Derkson Road - Carmen Hill Road, Vanderhoof	6.5		100		CNR Overpass Route
Prince George Fraser River Airport Hill	3.5	100	60		New Fraser River Bridge Route
CNR Overpass and Approaches 1st Avenue, Prince George	1.0		100	80	Eliminate Railway Grade Crossing
CNR Overhead Approaches, Tyee	2.64		100	100	Upgrade 2 Lane Road
Khyex River to Tyee Overhead	9.56		100	20	Upgrade 2 Lane Road
D.L. 4804 to Andesite Creek Polywog Creek Overhead	10.7		95	5	Upgrade 2 Lane Road
South Hazelton, Kitsequecla Bridge to Carnaby Crossing	9.4		100	30	New 2 Lane Route Replacement
Kathlyn Lake Road Intersection	0.5		100	95	
Smithers Arterial, Toronto Street to Alberta Street	1.6		100	5	4 Lane Curb and Gutter
Smithers - Telkwa, Section 2 (Telkwa Bypass)	5.3		30		New 2 Lane Route
D.L. 2106 to D.L. 338 West of Houston	2.5		5		4 Lane Curb and Gutter
Houston, Butler Avenue to Buck Creek	0.7		100	10	4 Lane Curb and Gutter
Burns Lake Bypass	18.0		20		New Arterial
Terrace, Kenney Street - Eby Street	1.1		100	100	4 Lane Curb and Gutter
HIGHWAY 16A					
Smithers to Telkwa Grid Road West of Bulkley River	27.0	30			New Arterial Routes
HIGHWAY 17					
McKenzie Avenue Interchange	1.0	100			Replace Grade Intersection
Beacon Avenue Interchange	1.0	96	50		Replace Grade Intersection
HIGHWAY 19					
George Pearson Bridge-Princess Royal Ave.	2.9	100	19		6 Lane Design
Northfield Road Intersection	1.0		83	60	Upgrade Intersection
Bowen Road and Rock City Road Intersections	1.0		100	95	Upgrade Intersection
Hammond Bay Road - Superior Road	5.0		90	10	4 Lane Upgrade Standard
Highway 4 - Mud Bay Parksville and and Qualicum Bypass)	16.0	100			Environmental and Engineering Study of New Route
Highway 4 - Dashwood Parksville - Qualicum Bypass	10.0		100		Environmental and Engineering Study of New Route
Highway 4 - Hilliers Road (Parksville - Qualicum Bypass)	10.0		90	10	Environmental and Engineering Study of New Route
Parksville Curb and Gutter Molliet Street to Englishman River	4.1		100	97	4 Lane Design
Pym Road Intersection North of Parksville	0.8		5		
Qualicum Area (French Creek) Eaglecrest Drive Intersection	0.6		100	98	
French Creek Area Sunrise Dr. Intersection	0.5		100	20	
Courtenay Arterial Curb and Gutter Embleton Street to 21st	1.6		100	10	4 Lane Design

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 19 - continued					
Rockland Avenue and Highway 19 Willow Point Area	0.4		100	99	4 Lane Design
Willow Point Curb and Gutter	1.2		100	10	4 Lane Design
Duncan Bay to Menzies Bay	8.0		100	65	Engineering and Environmental Study of Various Routes
Port Hardy to Coal Harbour Area LaMonte Creek Site Plan and Approach	0.5		100	75	New Bridge
Keogh River Site Plan and Approaches	1.2		100	50	New Bridge
Nanaimo Bypass	23.0		37		Engineering and Environmental Study of Various Routes - New Island Highway
HIGHWAY 20					
Bella Coola, Bridge Site Plans	2.0		100	85	New Bridge
Alexis Creek to Bull Canyon	10.0		100	40	Upgrade to 2 Lane Standard
Klinaklini River Bridge Approaches	2.0		100	85	New Bridge
HIGHWAY 22					
Rossland Curb and Gutter Columbia Avenue	1.6		100		Upgrade Street
Relocation at Murphy Creek	1.0		50		B.C. Hydro Study
Castlegar Curb and Gutter 7th Avenue 16th Street to Highway 3	3.2				4 Lane Curb and Gutter
HIGHWAY 24					
Phinetta Lake to District Boundary	5.2		100	40	Upgrade to 2 Lane Standard
Little Fort - Phinetta Lake, Section 1	5.0		98	98	Upgrade to 2 Lane Standard
HIGHWAY 28					
Buttle Narrows Site Plan and Approaches	1.1		100	99	New Bridge
Echo Lake, Forbes Landing to Camp 8	8.0		100	15	Upgrade 2 Lane Alignment
HIGHWAY 31					
Trout Lake - Gerrard West Side Wilkie Creek to Asher Creek	10.0		80		New 2 Lane Route
Trout Lake - Gerrard West Side Asner Creek - Gerrard	19.0		50		New 2 Lane Route
Relocation of Highway 31 and Davis Creek Bridge at Lardeau	1.0		100	10	
Lost Ledge Creek Culvert	1.0		40		
Lardeau Bluffs	1.0		25		2 Lane Alignment Improvement
HIGHWAY 33					
Highway 97 Mackenzie Road, Rutland	3.5		30	12	4 Lane Curb and Gutter
HIGHWAY 35					
Overpass, CNR at Burns Lake (Highway 16 to Highway 35)	1.0		100	60	Replace CNR Grade Crossing

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 37					
Kitwanga - Nass River Cranberry River to Derrick Creek	18.6		100	100	New 2 Lane Route
Dease Lake - Sawmill Point	41.0		90		Upgrade Substandard 2 Lane Road
Burrage River	6.0		90	15	New Bridge
Blue River - Yukon Territory Boundary	30.0		100	100	Upgrade Substandard 2 Lane Road
Todagin Creek	3.2		95	15	New Bridge
HIGHWAY 49					
Dawson Creek Curb and Gutter 8th Street to City Boundary	1.2		100	40	4 Lane Curb and Gutter
HIGHWAY 95					
Radium Junction	1.0		80	10	Upgrade Intersection with 4 Lane Curb and Gutter
HIGHWAY 95A					
Kimberley Curb and Gutter, Archibald Street - Kimbrook Crescent	1.6		100	25	
Wallinger Avenue and Ross Street Intersection, Kimberley	1.0		100	25	Improve Intersections
HIGHWAY 97					
McAlpine Bridge to Vaseux Lake	10.1		98	5	4 Lane Upgrading
Kaleden Junction	1.4		50	90	Improve Intersection and 4 Lane Design
Penticton Channel Parkway, Section 2 (Fairview Road and Eckhardt Avenue)	3.2			100	New 4 Lane Urban Section
Penticton - Trout Creek	8.0		100	50	4 Lane Upgrading
Okanagan Falls		100			
Trout Creek - Summerland	8.0		95		4 Lane Upgrading
Westbank Curb and Gutter Gormans Mill to I.R. 9	3.5		98	73	4 Lane Upgrading
Westbank - Kelowna, Section 1 I.R. 9 and East Boundary Road	3.7		96	75	4 Lane Upgrading
Harvey Avenue, Kelowna (Kelowna Bridge to Princess)	1.6		90	30	6 Lane Upgrading
Ellison Lake - Wood Lake, Winfield	10.6		80	24	4 Lane Curb and Gutter
Oyama Road Intersection, Left Turn Slot	0.80		100	99	2 Lane Improvement
Oyama - Bailey Road	9.0		95	40	4 Lane Upgrading
Bailey Road - Vernon	11.0		100	95	4 Lane Upgrading
Vernon 27th Street Extension (32nd Avenue to Reservoir Road)	2.1			20	Proposed New Route
Barnhartvale Road to Monte Creek	8.0		100	85	4 Lane Upgrading
Cache Creek to Loon Lake Road	21.0		100		4 Lane Upgrading
Clinton Underpass Approach	2.0		100		Improve Alignment
Mile 83 to Mile 94	17.5	100			Improve Alignment
Borland Creek (150 Mile House)	1.5		30	100	New Culvert
Dragon Hill Northstar Road to Maple Drive	4.4		95	30	4 Lane Section
North Star Interchange, Quesnel	1.6		100	100	Replace Grade Intersection
Quesnel Bypass	5.0	55			New Route Study
Fifth Avenue Interchange, Prince George	0.7		100	65	Replace Grade Intersection

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 97 (continued)					
Fifth Avenue Intersection	0.8	100	5	100	Improve Grade Intersection
Bear Lake, BCR Underpass	2.0		50		Replace Grade Crossing
Bear Lake to Red Rocky Creek	13.9		100	80	2 Lane Upgrade Alignment
Red Rocky Creek to 42 Mile Creek	19.9		100	40	2 Lane Upgrade Alignment
D.L. 8917 to Garbitt Tunnel Section	13.3		100	100	2 Lane Upgrade Alignment
Chetwynd Underpass BCR Crossing	1.2		91	83	Replace Grade Crossing
Fort St. John Storm Drainage McKenzie Street to 88th Street	1.6		100	92	Improve Drainage
HIGHWAY 97A					
Swan Lake to Grozier Road	7.5		90	40	4 Lane Design
HIGHWAY 99					
Stanley Park Causeway	2.4		90	60	Upgrade Width and Replace Surface
Horseshoe Bay - Squamish, Section 1 Horseshoe Bay to Newman Creek	8.0	3			4 Lane Upgrade
Horseshoe Bay - Squamish, Section 2 Newman Creek to "M" Creek	6.0	70			New Bridge
Horseshoe Bay - Squamish "M" Creek to Porteau Cove	8.3				4 Lane Upgrade
Horseshoe Bay - Squamish, Section 2 Porteau Cove to Brittania	5.0	15	3		4 Lane Upgrade
Brohm Lake to Cheakamus Canyon	16.1		100	85	Upgrade Old Alignment
West Road - Mons	8.0		40		4 Lane Urban Section
HIGHWAY 99A					
64th - Nikomekl River	7.2		30		4 Lane Upgrade
Kingsway (Edmonds - 10th Avenue)	1.13		98	69	6 Lane Old 4 Lane Section
HIGHWAY 101					
Langdale - Gibsons	6.43		58		New Route
Langdale - Payne Road	5.79			3	New Route
Sechelt Four Lane Bypass Airport to Trout Lake	23.3				Future Arterial Route
Secret Cove - Madeira Park	9.7		99	70	Realignment of Existing Road
MISCELLANEOUS HIGHWAYS					
REGION 1					
Stormont Interchange - McBride Blvd.	3.2		100	5	R/W Acquisition for 4 Lane Road
Chancellor Blvd. Curb and Gutter Acadia Road to Drummond Road	1.5		98	95	
Queensborough Bridge North Approach	2.7	100			)Upgrade Existing)Interchange Annacis
Queensborough Bridge (Modify Existing)	0.5	100			)Crossing System
Bridge Road - River Road (River Road to Industrial Avenue)	3.2		100	7	New 4 Lane Road
Highway 99 - Fraser River, Annacis	8.5		95	70	New 4 Lane Freeway

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 1 - continued					
Queensborough Connector, Annacis	4.2		35	70	New 4 Lane Freeway
Annacis Truck Route, Belgrade to Carter	2.4		99	70	4 Lane Arterial Street Annacis System Link
Scott Road (Highway 10 to 80th Avenue)	4.2			10	4 Lane Curb and Gutter
Scott Road Highway 99A to Old Yale Road (includes Pattullo Bridge Ramps)	2.4		100	95	4 Lane Upgrading
Glover Road Springbrook - 88th	3.5				Upgrade Existing Road
Glover Road 88th - 96th					Curb and Gutter Fort Langley
Scott Road (Old Yale Road to 96th Ave.)	4.5		50		4 Lane Upgrading
Interchanges, Westminster Highway Alternates		100			Annacis System Route
Westminster Highway	6.8	100			2 Lane and Turn Slots
Gilley Route	9.3	25			Annacis System Route to Replace Westminster Highway
Annacis Island				100	4 Lane Freeway and Interchange Cliveden Road
North Shore Transportation Study, Section 1 - Fern Street to Mt. Seymour Parkway	3.5	99		100	4 Lane Extension of Mt. Seymour Parkway and Crossing of Seymour River
North Shore Transportation Study, Section 2 - Connection Keith Road - Hwy. 1			5		Upgrade Connections to Highway 1 from Street System
North Shore Transportation Study, Section 3 - Keith Road Brooksbank-Lillooet			5		Upgrade Connections to Highway 1 from Street System
Lillooet River Crossing at Pemberton	0.8		100	76	New Bridge
Lillooet Lake - Duffey Lake Section 1 of Mt. Currie - Lillooet	28	99			Relocate Existing 2 Lane Substandard Route
Coquihalla, Section 3 Peers Creek to 10 Mile Creek	5.1		100	94	New 4 Lane Freeway
Coquihalla, Section 5 10 Mile Creek to Sowaqua Creek	3.7		98	62	New 4 Lane Freeway
Coquihalla, Section 6 Sowaqua Creek to Ladner Creek	6.1		90	89	New 4 Lane Freeway
Coquihalla, Section 7 Ladner Creek to Portia	4.3	90		5	New 4 Lane Freeway
Coquihalla, Sections 8 - 11 Portia to Boston Bar Summit	12.8	30			New 4 Lane Freeway
Coquihalla Route, Stage 2 Hope to Lear	14.5	70			Stage 2 Environmental Report
Coquihalla Route, Stage 2 Lear to Shylock Landing	16.0	4			Stage 2 Environmental Report
Port Mellon to Squamish	40.0	7			Route Investigation
Vancouver - Squamish Alternatives		40			Investigation of Various Routes
Grantham Street Bridge, North Vancouver					New Bridge
REGION 2					
Osoyoos (87th Street Improvements)	3.2		30		
Westside to Nahun I.R. 10 to Wilson's Landing	19.1		35	10	Relocate 2 Lane
Mable Lake Road Through Enderby (Indian Reserve 2)	4.8		100	90	Improvement Alignment and Grade

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 2 - continued					
Kamloops to Summit Drive, Section 2	4.8			10	New 4 Lane Route
Coquihalla, Sections 13 & 14 Dry Gulch to Mine Creek	9.34		90	90	New 4 Lane Freeway
Coquihalla, Section 15 Mine Creek to Julliet Creek	5.9		65	20	New 4 Lane Freeway
Coquihalla, Julliet Creek to Brodie	15.8	100	100		New 4 Lane Freeway
Coquihalla, Brodie to Kingsvale	11.0	53	47		New 4 Lane Freeway
Coquihalla, Kingsvale to Merritt	28.0	90			New 4 Lane Freeway
Coquihalla, Merritt Bypass		8			New 4 Lane Freeway
Merritt - Kamloops	73.7	5			New 4 Lane Freeway
Similkameen River Bridge at Keremeos	0.5		95		New Bridge
Enderby via Cliff Street	0.8		100	80	New Bridge
Sicamous Narrows Crossing		100			Study for New Crossing
Highland Valley Road Ashcroft - Highland Valley	8.0		100		Improve Alignment
Halston Interchange to Junction Highway 5 and Paul Lake Road	3.2		100	75	New Route Crossing North Thompson River
Glenmore Street Extension	4.98		100	100	New 4 Lane Route
Vernon Grid Road System CPR Crossing at 48th Avenue			95	20	Connect 48th Across CPR
REGION 3					
Nelson Waterfront Road	1.6		100	15	Design for Municipality
Pass Creek Road	4.0		95	90	Improve Old Road
Syringa Creek - Deer Park	10.0		100		Improve Old Road
Burma Road, Part of Fernie Network	5.0		95		New Future Arterial Route
Slocan Valley Bridges Slocan Park Bridge	0.2		100	15	New Bridges
Slocan Valley Bridges Passmore Bridge	1.0		100		New Bridges
Wardner - Fort Steel Road, Wildhorse Creek Revision	0.8		100	95	Improve Alignment of Existing Road
Athalmer - Highways 93 and 95	2.0		100	60	Relocate Old Highway
Lower Toby Creek Road (Invermere - Lillian Lake)	3.0		100	15	Relocate Old Highway
Cranbrook - Kimberley Airport North Access	12.0		50		Proposed New Route
Left Turn Lanes at Roadside Rest Areas	0.50		100	50	
Left Turn Lanes at Roadside Rest Areas	0.50		100	50	
Left Turn Lakes at Roadside Rest Areas, Nelson	0.5		100	50	
Left Turn Lanes at Roadside Rest Areas, Nakusp	0.5		100	50	
Avis Road (Slocan Valley)	2.5		100		Upgrade Alignment
Village of Invermere 6th Street Connection	0.5		75	25	Proposed New Link
Passmore to Vallican, Little Slocan River Crossing	2.0		100	50	
South Fernie Drainage	1.0		75		
Toby Creek Bridge Site (Panorama)	0.5		75		
Lazy Lake Road	14		70		Upgrading
Perry Creek Road	5.0		90		Upgrading
Granite Road (Nelson)	6.0		15		Upgrading
REGION 4					
Foothills Blvd: Otway Road - North Nechako Road	2.1		100	100	Approaches New Bridge
Patricia Avenue - Northwood Pulp Access Section 1	2.0		80	15	Proposed Arterial

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 4 - continued					
North Nechako Road - Northwood Pulp Access, Section 2	6.0		75		Proposed Arterial
Northeast Coal Access Feller Heights to Tumbler Ridge	63.0		58		Upgrade Old Road
District Road No. 151 Beatton River Buick Creek to D.L. 2994	40.0		100		Upgrade Old Road
Clayhurst Bridge Site (Peace "R" Rolla District Road No. 43)	1.0		100		Proposed Bridge
Teko Road Septimus - Pine River	10.0	100			Proposed New Route
Vanderhoof 4th Street to Victoria Street Bounoary Avenue Highway Overhead CNR	1.0		60		New Route to Replace CNR Grade Crossing
Vanderhoof CN Overpass (West)	1.0		95		Proposed Route to Replace CNR Crossing
Heritage Highway Arras to Tupper, Muskeg Lake to Quality Creek	37		80		Upgrade Old Road
REGION 5					
Kitimat Industrial Road from Alcan Road to Kitimat Dock	4.4		40	40	Proposed New Road to Dock
Aiyansh, Section 2 Nass River Bridge to Greenville	12.5		100	50	New Route
REGION 6					
Nanaimo Bypass	26.9	21			Line Revisions
Nanaimo Bypass Study	23.0	100			Environmental and Engineering Study
McKenzie Avenue, Highway 17 to Highway 1	2.4		100	100	New Arterial Saanich
Wale Road	0.8		70		Proposed New Street Link
Shawnigan Lake Road (E & N Underpass)	0.8		12		Upgrade Old Road
Compton Road	0.6		100	15	Upgrade Old Road
Crofton Access (Original Route)	6.4		70	96	)Relocate Existing)Road and Upgrade
Crofton Access Alternate Route	7.0		50		)Standard
Wally Creek Site Plan	1.6		98		New Bridge
Marble River Site Plan and Bridge Approaches (Alternate)	1.0		100	20	New Bridge and Relocated Approach
Durrance Lake Road Relocation	5.2	95	97		Relocate Old Road to Avoid Weapons Range
Port Albion Bridge and Approaches	2.8		55		New Bridge
Sacht's Bridge and Approaches (Sayward - Kelsey Bay)	2.0		100		New Bridge
Riverbottom Road, Section 4	10.0		100	80	
Gold River - Tahsis (Upana Summit - Tlupana Creek)	8.0		100	75	Upgrade Old Forest Access
Rennison No. 7684 Bridge and Approaches	0.6		100		New Bridge
Yellowpoint Road, Section 4	1.2		100	90	Upgrade Alignment
Theimer No. 1.2233 Bridge and Approaches (Beaver Cove Road)	1.0		100		New Bridge
Tsoulton No. 2163 Bridge and Approaches (Beaver Cove Road)	1.4		98		New Bridge
Duke Point Access	5.75		100	99	Upgrade Old Road to 4 Lane

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 6 - continued					
Webb No. 7326 Bridge and Approaches	0.7		98		New Bridge
Hopkins No. 7311 Bridge and Approaches	0.6		61		New Bridge
Cortes Island Misc. Section 4 Roads	10.0		95		Upgrade Old Roads
Bridge Site Plans Western Mines Road Thelwood, Henshaw, Ralph and Lupin	1.5		66		
Humpback Road, Highway 14 - Highway 1	5.0		4		Upgrade Old Road

Preliminary Study Section

Before design can be undertaken studies of possible and feasible routes must be made. These activities are shown on the above listing under the heading of Preliminary Studies April 1, 1981 and March 31, 1982. A necessary aid to the performance of these studies is aerial mapping at various scales obtained from aerial photographs. To this end sufficient low level photography was obtained to produce high order mapping on the following:

1. Highway 1A Aldergrove (264th - 270th).
2. Glover Road (88th - 96th).
3. Horseshoe Bay - Squamish.
4. Gilley Route (No. 5 Road - Hamilton).
5. Cedar Underpass - North Departure Bay Road.
6. Coldwater Indian Reserve Bypass.
7. Nanaimo Bypass.
8. Merritt Bypass.

Low order mapping was obtained on the following:

1. Lee's Corner (Highway 20).
2. Hanceville - Stone Indian Reserve (Highway 20).

High order mapping was obtained on the following:

1. Newman Creek - "M" Creek.
2. Porteau Cove - Brittania.
3. Gilley Route.
4. Nicol Street (Nanaimo).
5. Nanaimo Couplet.
6. George Pearson Bridge - North Departure Bay Road.

Archaeological

The first of a three year study commenced on salvaging the St. Mungo Cannery site. The site was protectively enclosed, and following a number of months of work, the site was opened to public and school tours. The next two years will be devoted to cataloging, evaluating and writing reports on the artifacts and the site.

The Ministry continued to fund archaeological impact assessments and minor salvage operations related to District and Regional Highway Construction Projects.

Metric Conversion

The Metric Coordinator continues to represent the Ministry at Provincial Government Metric Conversion Committee meetings and to monitor the conversion of the Ministry to the metric system.

Section 5.06 of the Federal Government Metric Commission, Road Design and Operations, has completed its work and has now "stood down". Members of the committee from our Ministry were presented with a plaque in recognition of the work they have done on this committee.

The small "km" tabs on distance signs on our highways have been discontinued but the regulatory signs will still contain the metric message although it will be incorporated on the primary signs and not in tab form.

Sound Control

The position of Sound Control Studies Engineer (SCSE) has existed for over three years. The main duties of the SCSE continue to be the prediction of sound levels from proposed highways using both manual and computer techniques, the measurement of existing community sound levels along the proposed highway alignments, the evaluation of the resulting highway sound impact, and if necessary, the recommendation of sound abatement measures. This process was carried out wholly or in part on the following projects in the past year:

Annacis - Queensborough Bridge / Burnaby Connector
Annacis - Gilley Route to Highway 99
Quinsam Coal Haulage Route - Highway 28
Westbank - Kelowna, Highway 97

Highway construction noise can cause considerable community concern, particularly if evening and/or nighttime work is involved. At the Annacis Island Crossing site, the SCSE has been monitoring noise levels from such activities as river sand dredging and stockpiling and a pile driving test program. Where necessary and feasible, such as on the river dredge, noise abatement measures were recommended and implemented.

The SCSE also conducted a series of 1 1/2 day seminars on highway noise generation and control. Approximately 100 Ministry staff attended the four sessions which were held in Victoria, Vancouver and Nanaimo. In the future the seminar will be given at two interior locations, likely Nelson and Prince George.

Computer Operations

The Highway Design and Surveys Branch continues to be one of the heavier users within the Ministry. The Branch has completed a general requirements description for implementation of a computer aided design and drafting system. This system would interface with the metric highway design computer package which was designed for the Branch by BCSC. Some contract drawings such as profiles are now drawn entirely by computer. However, the above system would allow all engineering drawings to be so produced. Further studies are to be completed.

This past year the Branch has been successful in producing contour plots derived from surveyed cross sections. This is proving to be a valuable time saving tool to both field and design staff.

Consultants

This past calendar year the Ministry has requested consulting firms to carry out the survey and/or design work on the following projects, many of which are still under way.

1. Annacis Highway — 20 km of new route for four and six laning.
2. Mary Hill Bypass -- 5.0 km new route Highway 7 at the Pitt River Crossing to Cape Horn Interchange.
3. Mission Roadworks -- 1.6 km Hurd Road to Mission.
4. Highway 7, Silverdale to Hurd Road — 6 km of four laning.
5. Highway 1, Capilano to Lynn Valley — 4.0 km freeway design.
6. Haney - Silverdale — 18.5 km four laning.
7. Stanley Park Causeway — 1.6 km reconstruction and re-surfacing of road through Stanley Park.
8. McKenzie Avenue Extension — 1.5 km four lane curb and gutter plus interchange design.
9. Kamloops Interchange, Highway 1 and 5 at Aberdeen — 3.0 km future interchange of two four-lane roads.
10. Vernon - 32nd Street Extension North — 3.0 km new four lane route.
11. Vernon - Highway 6 from 27th Street to 32nd Avenue — 0.8 km urban four lane.
12. Penticton Channel Parkway, Section 2 — 3.4 km four lane part curb and gutter.
13. Rossland Avenue - Stoney Creek — 2.4 km new four lane connection to creek in Trail (Trail - Highway 3A near Cominco Tadanac Relocation).
14. Highway 23, Revelstoke — 95.5 km replacement of two lane highway Mica flooded by Revelstoke Dam.
15. Fifth Avenue Interchange -- Fifth Avenue Overpass of Highway 97 at Prince George plus a diamond interchange at Prince George.
16. Northeast Coal Access — 70.4 km new road to proposed coal development Martin Creek to Gwillim Lake.
17. North Star Interchange -- 4.3 km paved highway and approach ramps at Quesnel plus six lane bridge (26 m long).
18. Highway 29 Relocation -- 24 km replacement of highway to be between Hudson Hope and flooded by Site "C" Dam Charlie Lake.
19. Cassiar Street Study Multidiscipline Study of Cassiar Street.

Consultants are also doing the following Environmental and Socio-Economic Impact Studies from South End of Second Narrows Bridge to Junction with 401 at Rupert Park.

Highway 29 Relocation for B. C. Hydro's Site "C" Dam
Qualicum North Bypass Environmental and Engineering Study
Kamloops - Merritt (Coquihalla) Environmental and Engineering Study
Coldwater Indian Reserve (Coquihalla) Environmental Impact Study
Coquihalla Highway - Hope to Merritt

The planning, design and construction of the Coquihalla Highway is progressing. The functional planning is completed for 60 km of the highway, and at various stages of completion for the remaining 52 km. Functional planning reports are being prepared to summarize and document the studies to the end of the functional planning stage.

Two of the 24 sections between Hope and Merritt have been constructed, the length totalling 9.1 km. A third contract of 9.3 km is completed and ready for call. Design is at various stages of completion for six additional contracts totalling 31 km.

Vancouver - Squamish

A preliminary study of possible highway corridors between Vancouver and Squamish is being undertaken. Four corridors have been identified for study; the existing highway, the Capilano Valley, the Seymour Valley and the Indian River Valley. The study will compare the corridors in terms of a number of factors to determine those which are worthy of additional study. A corridor study report is being prepared to outline the study and present the findings.

Hydraulic Engineer

The scope of the projects dealt with ranged from minor drainage problems for subdivisions to the hydraulic aspects of major river crossings. Investigations that were initiated or continued during the current year included: Nass River Bridge near Greenville, North Thompson River Bridge at Kamloops, Kirby Creek near Sooke, Lougheed Highway drainage near Colony Farm and the B. C. Railway Bridge at Bullmoose Creek near Tumbler Ridge.

In addition, the Hydraulic Engineer has been involved in discussions between the Ministry and consultants concerning the following projects: Northeast Coal Access Road, Fraser River Crossing at Annacis Island and the Peace River Bridge at Clayhurst.

The role of the Ministry as the approval agency for subdivisions in unorganized areas has required that the Hydraulic Engineer spend a significant portion of his time reviewing the proposed drainage works.

Environmental Section

In the past year the Environmental Section managed and carried out a number of multidiscipline environmental impact studies in various regions of the province.

The Annacis Crossing system has five studies in progress. One, was completed south of the Fraser River detailing the impact of the highway on Burns Bog. A compendium is in draft form detailing environmental considerations incorporated into the engineering design. Two, a detailed Land Use and Agricultual Impact Assessment is in progress on the Gilley Road (East/West Route) in Richmond. Three, an ongoing Fisheries/Hydrology Study is examining the resource, impacts and habitat enhancement opportunities for the main span bridge and Annacis Channel structures. Four, a Socio-Community Impact Study north of the Queensborough Bridge is just beginning to document future traffic impacts on this community in New Westminster. Five, the St. Mungo Cannery Archaeological Site Salvage has completed its first of three years in salvaging, classifying and documenting this valuable heritage site.

Stage II Study on the Chetwynd-Tumbler Ridge Highway was completed and is being distributed to government agencies and interest groups. The Coquihalla Highway Project has a Stage II Socio-Community Impact Study on the Coldwater Indian Band in progress. A draft of the first Stage II report from Hope to Lear is being prepared for publication. Further studies will be required on the Boston Bar and Merritt to Kamloops section of the highway.

Studies and testing were continued on delineating and presenting wildlife/vehicle collisions.

A report is in draft form for publication detailing the sites and numbers of wildlife/vehicle collisions since 1978 for all of the Highway Districts in the province.

REPORT OF DIRECTOR OF GEOTECHNICAL AND MATERIALS ENGINEERING

J.W.G. Kerr, P.Eng.

Geotechnical investigations took place on some 845 projects this year. Investigations undertaken included: geotechnical highway design, foundation investigation and design, stability analyses, geotechnical hazard evaluations, aggregate prospecting and testing, pavement evaluation, quality control and materials testing. This work was accomplished by the 208 members (including auxiliary employees) employed by the Branch, in the six regions and its design, terrain, operations and special project sections.

The Fraser River Crossing (Annacis) project and Highway 99 evaluations constituted major design projects for the Branch this year. Designs for the Annacis project have demanded considerable geotechnical investigation and consultant liaison work. While most structural and geometric design work for the Annacis project is being done by consulting engineers, all field drilling and testing is by Branch forces. Geotechnical analysis and design for all but the main span is also being done by the Branch.

Investigation of alternative alignments to the existing Highway 99 route involved extensive air and ground reconnaissance to evaluate the adequacy of existing bridges to accommodate debris torrents and to determine the ingetrity of various rock slopes for design and maintenance purposes. Design work along rock cuts on proposed sections for four-laning is continuing.

Acquisition of a saximeter for pile hammer stroke measurement, to be used in foundation investigation and design together with the Branch dynamic pile driving analyzer gives the Ministry one of the most advanced programs in Canada for the dynamic analysis of foundation piles before and during construction. This equipment provides design assurance and considerable potential for economic control.

Maintaining and restoring the stability of highway cuts and fills comprised a large part of the stability analyses carried out. Major investigations were undertaken at such sites as a large slide along the Northeast Coal development road and the Holdich Slide area on the new Mica access. Other stability investigations included analysis of bridge movements at Vanderhoof, Pitt River and Columbia River; Mabel Lake slides in Kamloops region, and installment of slope indicators on the Winlaw slide on Highway 6. In addition, a preliminary assessment of all Ministry repeater communication sites for stability during seismic tremors took place.

Stabilization of highway rock cuts through Branch rock scaling programs took place within the Districts of North Vancouver, Salmon Arm, Rossland, Cranbrook, Terrace and Smithers. Particular emphasis was given to rock slope stabilization programs at M-Creek, Strachan Creek #1 and Porteau Camp Bluffs on Highway 99.

Testing to evaluate materials used in Ministry operations continued in Victoria and the six Regional offices and laboratories. Aggregate source inventories have been compiled in all regions, forming the base for aggregate resources planning. A beneficiation program to improve the quality of aggregates along Highway 37 also was initiated. Pavement evaluation studies resulted in the preparation of designs for reconstruction, overlays and repairs, particularly in such problem areas as the Pine Pass (Highway 97) and Highway 16 near McBride.

Special projects undertaken included polymer concrete testing for the Patullo Bridge, electronic design and fabrication of acoustic emission sensors, field evaluation of a dynamic field pavement testing unit and causes and remedies for frost heaving. An automic absorption spectrophotometer has also been used to test manufactured products such as paints, water, hydrocarbons and cement products.

Other pertinent facts and statistics on Branch operations are listed in the following table.

TABLE OF INFORMATION ON PROJECT AREAS AS CARRIED OUT BY THE GEOTECHNICAL AND MATERIALS BRANCH

BRANCH ORGANIZATION / PROJECT AREAS	REGIONS						HEADQUARTERS			GEOTECHNICAL OPERATIONS			
	REGION 1	REGION 2	REGION 3	REGION 4	REGION 5	REGION 6	DESIGN SECTION	TERRAIN SECTION	LABORATORY	DRILLING OPERATIONS	GEOPHYSICAL SERVICES	ROCKWORK SECTION	TOTAL
GEOTECHNICAL HWY. DESIGN INVESTIGATIONS													
NO. OF PROJECTS	6	6	2	11	4	6		2					37
DISTANCE COVERED (km)	20.7	56.0	3.6	70.1	54.0	25.0		260.0					489.4 (km)
FOUNDATION INVEST. AND DESIGN													
NO. OF PROJECTS	0	8	7	5	13	4	37						74
BRIDGES		6	5	5	11	4							31
INTERCHANGES		1											1
RETAINING WALLS		1											1
ROAD ACCESSES			1		2								3
DAMS			1										1
STABILITY INVESTIGATIONS													
NO. OF PROJECTS	8	31	10	17	15	12	3	2					98
SITES INSTRUMENTED		18	3	15									36
GEOTECHNICAL HAZARDS													
NO. OF SUBDIVISIONS	10	73	8	1	5	12		15					124
NO. OF LOTS	50	817	40	5	25	60		89					1086
AGGREGATE INVESTIGATIONS													
NO. OF PITS OR PROSPECTS	46	69	26	98	81	23		2			62		405
GRAVEL PITS	46	69	26	98	71	23		2			62		395
NO. OF TEST PITS OR HOLES	* 52	* 51	* 75	*1514	* 84	200							* 2476
QUARRIES					10								10
ELECTROPHYSICAL STUDIES (km)											275		275 (km)
PAVEMENT EVALUATION													
NO. OF PROJECTS	43	9	5	8	4	38							107
DISTANCE EVALUATED (km)	259	117	106	179	136	166							963 (km)
CONTROL SECTIONS	31	35	59	32	59	29							245
READINGS/YR.	18	8	8	11	7	4							2191
QUALITY CONTROL AND MATERIAL TESTING													
NO. OF CONC. INSPT.	488	120	112	14	7	62			7				803
CYLINDERS BROKEN	1998	615	247	362	130	272							3624
LAB TESTS	1950				3137				4257				* 9344
GRAVEL CRUSHING CONTRACTS INSPECTED		6		3									* 10
FBM-TIMBER AND LUMBER INSPECTED			2067		17200	57630							*76897
GEOTECHNICAL OPERATIONS													
DRILLING - NO. OF PROJECTS				43						63			
DIAMOND DRILL HOLES (m)	2919	686		717	505	160				4987			4987
AUGER DRILL HOLES (m)		2867	583	375	2622	1841							8288
DEPTH OF HOLES (Total in m)	2919	3553	583	1092	3127	2001							13275
HORIZONTAL DRAINS	260		3937							4197			
CONE PENETRATION TESTING										588			
NO. OF GEOPHYSICAL PROJECTS											75		75
DISTANCE OF SURVEY (km)											275		275
NO. OF SEISMIC REFRACTION SURVEYS											14		14
DISTANCE OF SURVEY (km)											8.5		8.5
NO. OF ELECTROMAGNETIC CONDUCTIVITY SURVEYS											3		
ROCK SCALING QUANTITIES REMOVED												36000 (m^3)	36000 (m^3)
SLOPE MESHING PLACED												3600 (m^2)	3600 (m^2)
BLUFFS MONITORED												8	8

* FIGURES MAY NOT BE COMPLETE

REPORT OF THE DIRECTOR OF BRIDGE ENGINEERING

L.C. Johnson, P.Eng.

A total of $35,950,000 was expended on bridges and ferry terminals during the year. The following reports of the Senior Design Engineer, the Bridge Construction Engineer, and the Dock Engineer provide details of the Branch's activities.

The $6,000,000 Colony Farm Overhead, which provides access from the Lougheed Highway to Mayfair Industrial Park, was completed during the year. This much welcomed improvement overcomes the frequent traffic stopages caused by heavy C.P. Rail traffic. The structure was an award winner in the prestigious 1982 P.C.I. Awards Program. Other highlights in bridge activity was the continued construction of impressive structures for the relocated Revelstoke–Mica Creek Highway and of structures for the Northeast Coal Development Project.

The alternative designs in steel and concrete for the main span of the Annacis Bridge made excellent progress during the year and the superstructure designs are in the final stages of completion. Additional data from a pile test program must be collected prior to completing the foundation designs.

The design of the Annacis Island moveable bridge has been completed and conceptual layouts have been initiated on several of the "minor" structures that are included in the Annacis Highway System.

In the 1982/83 fiscal year, the number of applications for approval of high pressure pipelines was greatly reduced because of the slowdown in gas and oil exploration, but the number of applications for new or relocated railway crossings, signalization of railway crossings, railway grade separations, and Navigable Waters Protection Act approvals, remained about the same as usual.

Negotiations were continued with the Federal Government on seven major grade separation projects. The total Federal contribution under the Urban Transportation Assistance Program for these projects will be approximately $8,000,000.

The major accomplishments of the Dock Section were the double decking of a berth at both Swartz Bay and Tsawwassen Ferry Terminals.

NAME OF BRIDGE	DESIGN IN PROGRESS	DESIGN COMPLETED	TENDER CALLED
Annacis Complex			
Annacis Island Main Span	X		
Annacis Island Approaches	X		
Annacis Island Swing Span		X	
Trans Canada Highway			
Koksilah River		X	X
Bonaparte River Widening		X	X
Gibson Road Underpass		X	X
Koksilah Pedestrian Overpass		X	X
Clearbrook Road Underpass Wall		X	X
Texas Creek Widening		X	X
Campbell Creek Overheads		X	X
Yellowhead Highway			
Kasiks Overhead		X	X
Ekumsekum		X	X
Marigonish		X	X
Antigonish		X	X
Inver		X	X
Aberdeen		X	X
Tyee Overhead	X		
Highway 37			
Cranberry River No. 1		X	X
Cranberry River No. 2		X	X
Cottonwood River		X	X
Highway 37A			
Bear River No. 2		X	X
Bitter Creek		X	X
Cullen Creek		X	X
Surprise Creek		X	X
Highway 8			
Curnow Bridge	X		
Rattlesnake Bridge	X		
Three-Mile Bridge	X		
Potatosillihee Bridge	X		
Squamish Highway Bridge Protection			
Loggers Creek		X	
Magnesia Creek		X	
Newman Creek		X	
Harvey Creek		X	
Sunset Creek		X	
Tumbler Ridge Access			
Wolverine Creek			X
Flatbed Creek			X

NAME OF BRIDGE	DESIGN IN PROGRESS	DESIGN COMPLETED	TENDER CALLED
Region 1 - Miscellaneous			
Patullo Bridge Repair		X	X
Red Bridge - Lillooet River		X	
Cheakamus River		X	X
Mission Overhead		X	X
Cape Horn Flyover		X	
Bridge Road Underpass		X	
Nicomekl River Highway 15		X	
Seymour River Bridge		X	X
Fern Street Underpass Wall		X	X
Middle Arm Repair		X	(1)
Upper 19 Mile Creek		X	X
C.P.R. Overhead Widening	X		
Dewdney Bridge Repair		X	(1)
Agassiz-Rosedale Repair		X	
Region 2 - Miscellaneous			
Churn Creek Bridge	X		
Enderby Bridge		X	X
Kelowna Bridge Cables		X	X
Kelowna Bridge Widening	X		
Eckhardt Avenue Widening		X	X
Kaiser Bridge		X	(1)
Mission Creek		X	X
Penticton Parkway Underpass	X		
Lemieux Creek		X	X
Kamloops Bridge (North Thompson River)		X	X
Region 3 - Miscellaneous			
Trail C.P.R. Underpass		X	X
Trail Pipeline Underpass		X	X
Nelson Waterfront Overhead		X	
Michel Prairie Bridge		X	X
Creston Porthill No. 1		X	X
Michel Creek Bridge		X	X
Elkford Spur Overhead		X	X
Sparwood Overhead		X	X
Passmore Bridge		X	X
Slocan Park Bridge		X	X
Little Slocan River	X		
Region 4 - Miscellaneous			
Fort Nelson River	X		
Swift Creek (Valemount)		X	X
Clayhurst Peace River	X		
North Star Overpass		X	X
Otway Road Underpass		X	X
C.N.R. Underpass (Foothills)		X	X
Patricia Boulevard Overhead	X		
Kleena Kleene, Highway 20	X		
Six Mile Bridge Pier	X		
Region 5 - Miscellaneous			
Greenville Bridge		X	X
Walcott Foot Bridge		X	(1)
Burns Lake Overhead	X		
Kitwancool		X	X
Region 6 - Miscellaneous			
Interurban Road Overpass		X	X
Swan Creek		X	X
Carey Road Pedestrian Overpass		X	X
Buttle Lake Narrows	X		
Kirby Creek	X		

(1) Day Labour

BRIDGE CONSTRUCTION

In the 1982/83 fiscal year, 14 new vehicular bridges were completed. In addition, five bridges were widened and sidewalks were added to three bridges. On March 31, 1983, 16 bridges were under construction, two large bridges were under repair and pile testing was underway for the Annacis Bridge. Tenders had been received for work on 28 other bridges.

Vanderhoof West Bridge and Vanderhoof West Overhead, located on the Highway 27 bypass of Vanderhoof, were completed several months ahead of schedule.

Three small bridges were built on Highway 16 between Prince Rupert and Terrace and a railroad overhead was started, to further the upgrading of this highway.

"M" Creek on Highway 99 north of Horseshoe Bay, was opened in November, 1982 to replace a wooden structure catastrophically washed out in October, 1981.

Six of the bridges under construction are on the Northeast Development Road from Chetwynd. This area was a centre of much construction activity of many kinds during the 1982 season. All bridges are to be opened in the next year.

New concrete anchors have been cast for the floating Okanagan Lake Bridge and will be installed in the summer of 1983. The anchors and cables are being replaced because of deterioration of the old anchor cables.

Preparations are being made for the replacement of bearings for the south approach spans of Patullo Bridge over a period of time. The initial contract concerns one span only so that the next contract will reflect knowledge gained from it.

A good start was made on the substructure of Greenville Bridge across the Nass River 100 kilometres north of Terrace.

Work continued through the winter on Foothills Boulevard Bridge on Highway 97 in Prince George. 900 millimetre steel pipe piles were sunk by vibration, then cleaned out, driven by drop hammer, and filled with concrete. Nine piles with a concrete cap form each of the three piers. Segmental post-tensioned concrete girders are being erected.

A strike by B.C.G.E.U. employees, a subsequent strike by construction workers, and unseasonably wet weather slowed progress on most bridges during the summer. Most contractors accelerated their activity during the fall to catch up with their schedules before the winter shutdown.

An otherwise good safety record was again marred by an accident, fatal to a contractor's employee, in November, when a crane boom contacted a high voltage line.

BRIDGES CONSTRUCTED OR IMPROVED, 1982/83

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1246	Bonnell Creek Bridge	Island Highway	Comox	A three span bridge 33 metres long modified by removing the superstructure, extending the piers and abutments, and installing prestressed concrete box stringers and a concrete overlay.
1247	Nanoose Creek Bridge Modifications	Island Highway	Comox	A three span, 29.3 metre long bridge, modified by demolishing the deck and reinforced concrete stringers, extending the piers and abutments to accept new prestressed concrete box stringers and a concrete overlay.
1640	Nanoose Overhead Duplicate	Island Highway	Comox	A three span steel girder bridge 65.5 metres long with piers and abutments on steel H-piles.
1640	Nanoose Overhead	Island Highway	Comox	Modifications to an existing five span steel girder bridge 68.3 metres long. Roadway width is 9.1 metres with one 1.5 metre sidewalk.
2664	Colony Farm Bridge	Cape Horn to Pitt River Highway	Coquitlam-Moody	A prestressed concrete stringer bridge 110 metres long, 18.3 metres wide with a reinforced concrete deck and twin ramps consisting of: six spans totalling 203 metres of curved, precast, post- tensioned concrete box girders; 10 spans totalling 270 metres of prestressed trapezoidal concrete girders, 26 spans totalling 368 of reinforced concrete piers and abutments founded on steel pilings.
7791	Clearwater Town Bridge	Old North Thompson Highway	Kamloops	A three span, 105 metre prestressed concrete girder bridge with a reinforced concrete deck all supported by two concrete abutments and two piers built on extended large diameter pipe piles.
779	Wilson Creek Bridge	Elk Valley Road	Kootenay	A three span prestressed concrete box stringer bridge 46 metres long with steel pipe pile and concrete cap bents for abutments and piers.
672	Wardner Bridge	Southern Trans-Provincial Highway	Kootenay	Remove and dispose of three, 50 metre steel trusses and demolish and dispose of two concrete piers and two concrete abutments.
299	North Fernie Bridge	Highway 3	Kootenay	Supply and install a 107 metre steel and timber sidewalk to the outside of the existing trusses.

BRIDGES CONSTRUCTED OR IMPROVED, 1982/83–*Continued*

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1324	Mission Creek Bridge	K.L.O. Road	Kootenay	Remove curb and fence and supply and install new sidewalk on downstream side of the existing 43 metre bridge.
2708	Vanderhoof West Bridge	Highway 27	Omineca	A three span plate girder bridge 188 metres long with piers and abutments on steel H-piling.
2709	Vanderhoof West Overhead	Highway 27	Omineca	A three span prestressed concrete box stringer bridge 37.7 metres long with piers and abutments on steel H-piling.
1534	Carnes Creek Bridge	Mica Highway	Shuswap-Revelstoke	A 225 metre four span continuous steel plate girder bridge consisting of two symmetrical cantilever spans, one 40 metre central suspended span and one 40 metre end span supported on two reinforced concrete abutments and three reinforced concrete piers on prestressed pedestals excavated into rock and having a roadway width of 9.5 metres.
2697	LaForme Creek Bridge	Revelstoke-Mica Highway	Shuswap-Revelstoke	A 220 metre continuous steel plate (curved) girder bridge consisting of two 63 metre and two 47 metre spans with a concrete deck, 9.5 metre roadway, and supported on reinforced concrete substructure.
2235	Polymar Creek Bridge	Yellowhead Highway 16	Skeena	A three span prestressed concrete box stringer bridge 28.7 metres long with steel pipe pile and concrete cap bents for abutments and piers.
6714	Slickenside Creek Bridge	Yellowhead Highway 16	Skeena	A two span prestressed concrete box stringer bridge 19 metres long with steel pipe pile and concrete cap bents for abutments and pier.
2236	Snowbound Creek Bridge	Yellowhead Highway 16	Skeena	A two span prestressed concrete box stringer bridge 19 metres long with steel pipe pile and concrete cap bents for abutments and pier.
2675	Dickebusch Creek Bridge	Northeast Development Road	South Peace River	A single span, 36.5 metre long steel girder bridge with a reinforced concrete deck support on reinforced concrete abutments.

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1209	Eleven Mile Creek	Southern Trans-Provincial Highway	Yale-Lillooet	A 9 metre span widened to 20.1 metres by removing the steel and concrete superstructure, extending the abutments and supply and installation of a concrete overlaid prestressed concrete box stringer deck system.
1208	Nicolum Creek Bridge	Southern Trans-Provincial Highway	Yale-Lillooet	A 18.3 metre span widened to 18.9 metres by removing the existing steel and concrete superstructure extending the concrete abutments and installing a concrete overlaid prestressed concrete box deck system.
1453	"M" Creek Bridge	Garibaldi Highway 99	West Vancouver Howe Sound	A single span, 41.4 metre long steel stringer bridge on a reinforced concrete substructure with one abutment footing founded on rock and the other partially on rock and partially on H-piling, and with a 11.6 metre wide reinforced concrete deck.
2735	Greenville Bridge	Greenville Access Road	Atlin	A three span, 240 metre long steel plate girder bridge on a pile supported reinforced concrete substructure with a 9.3 metre wide reinforced concrete deck.
1343	Eckhardt Avenue Bridge	Eckhardt Avenue	Boundary-Similkameen	A three span, 48.8 metre long steel stringer bridge on a pile founded reinforced concrete substructure and a reinforced concrete deck being widened from 12.2 metres to 24.1 metres.
1190	Baker Creek Bridge	Marsh Drive	Cariboo	Improvements to widen from 9.1 metres to 18.3 metres on existing two span 80 foot long steel girder bridge on a pile founded reinforced concrete substructure.
210	Michel Prairie Bridge	Elk Valley Road	Kootenay	A four span, 121 metre long precast concrete stringer bridge on a reinforced concrete substructure, and with a 14 metre wide reinforced concrete deck, including two 1.6 metre sidewalk.
2752	Elkford Spur Overhead	Elk Valley Road	Kootenay	A three span, 63 metre long precast concrete box stringer bridge on reinforced concrete abutments and steel pipe pile bents and with a 14 metre wide reinforced concrete deck including two 1.6 metre sidewalks.

BRIDGES CONSTRUCTED OR IMPROVED, 1982/83—*Continued*

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2750	Sparwood Overhead	Elk Valley Road	Kootenay	A four span, 74 metre long precast concrete box stringer bridge on a reinforced concrete substructure with the abutments on spread footings and the piers on extended steel piling, and with a 14 metre wide deck which includes two 1.6 metre sidewalks.
2751	Michel Creek Bridge	Elk Valley Road	Kootenay	A four span, 70 metre long precast concrete box stringer bridge on a reinforced concrete substructure with the abutments on spread footings and the piers on extended steel piling, and with a 14 metre wide reinforced concrete deck which includes two 1.6 metre sidewalks.
933	Pattullo Bridge	King George Highway	New Westminster-Surrey	Retrofitting to repair existing concrete girders and to replace existing bearings under the girders.
1458	Okanagan Lake Bridge	Okanagan Highway 97	Okanagan South	Supply and replace concrete anchors, and anchor cables.
2764	Foothills Boulevard Bridge	Foothills Boulevard	Prince George, North and South	A four span, 157 metre long bridge supported on 2 reinforced concrete abutments on spread footings and three large diameter pipe pile bents with a 24 metre wide reinforced concrete roadway.
857	Downie Creek Bridge	Revelstoke-Mica Highway 23	Shuswap-Revelstoke	A four span, 98 metre long steel girder bridge on a reinforced concrete substructure with a 9.5 metre wide reinforced concrete deck.
1430	Mars Creek Bridge	Revelstoke-Mica Highway 23	Shuswap-Revelstoke	A 174 metre bridge consisting of seven structural steel spans of different lengths. Six of the spans, including a 61 metre truss, will be salvaged from the existing Holdich Creek and re-used. A new 45 metre span has been added. The structure is supported on reinforced concrete piers and abutments with spread footings. The roadway width is 8.5 metres.
1534	Carnes Creek Bridge	Revelstoke-Mica Highway 23	Shuswap-Revelstoke	Demolition and removal of 67 metres of reinforced concrete deck, dismantling and salvage of four spans of steel stringers for renovation and re-use at Downie Creek.

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2249	Kasiks Overhead	Yellowhead Highway 16	Skeena	A five span, 104.2 metre long steel stringer bridge on a reinforced concrete substructure with the piers on piling, the abutments on spread footings, and with a 11.3 metre wide reinforced concrete deck.
2781	Wolverine River Bridge	Northeast Development Road	South Peace River	A four span, 132 metre long precast concrete stringer bridge on reinforced concrete substructure with an 11 metre wide reinforced concrete deck.
2783	Flatbed Creek Bridge	Northeast Development Road	South Peace River	A three span, 93 metre long precast concrete stringer bridge on a reinforced concrete substructure with the abutments on spread footings, the piers on pilings, and a 11 metre wide reinforced concrete deck.
2782	Murray River Bridge	Northeast Development Road	South Peace River	A three span, 110 metre long steel girder bridge on reinforced concrete abutments, extended steel pile piers, and with an 11 metre wide reinforced concrete deck.
2187	Bullmoose Flats Bridge	Northeast Development Road	South Peace River	A three span, 72 metre long, precast concrete stringer bridge on a pile founded reinforced concrete substructure with an 11 metre wide reinforced concrete deck.
2780	Bullmoose Creek Bridge	Northeast Development Road	South Peace River	A four span, 113 metre long, precast concrete stringer bridge on a pile founded reinforced concrete substructure with an 11 metre wide reinforced concrete deck.
2268	Twidwell Bend Bridge	Northeast Development Road	South Peace River	A four equal span steel plate girder bridge 158.5 metres long with piers and abutments on steel H-piling.
2789	Culliton Creek Bridge	Garibaldi Highway 99	West Vancouver-Howe Sound	Reconstruct and pave a 1 km bridge approach, remove existing metal culverts, rechannel Culliton Creek and construct a 76 metre single span steel arch bridge with a 12 metre roadway all founded on a reinforced concrete substructure.

DOCK DESIGN, CONSTRUCTION AND MAINTENANCE

DESIGN

The following design works have been completed or are in progress:

BRITISH COLUMBIA FERRY CORPORATION PROJECTS

T.F.M.	215 Langdale Ferry Terminal - Double decking of berths and expansion of holding compound. Design in progress.
M-231	Crofton Ferry Terminal - Replacement of starboard wingwall. Design completed.
M-234	Swartz Bay Ferry Terminal - Repairs to port wingwall, Berth No. 3. Design completed.

MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

B-1391	Campbell River and Quathiaski Cove Ferry Terminals - Rebuilding of the berths to accommodate a larger ferry and provide an additional tie-up berth. Design completed.
	Nanaimo Ferry Terminal - Provision of new second berth plus enlarged holding compound. Design in progress.
	Gabriola Ferry Terminal - Expansion to holding area and parking lots. Design in progress.

CONSTRUCTION

The following works have been completed or are in progress:

BRITISH COLUMBIA FERRY CORPORATION PROJECTS

T.F.M. 143	Departure Bay Ferry Terminal - A new third berth, enlarged fill area, coffee shop/waiting room and foot passenger drop-off area. Construction completed. Overhead section of foot passenger walkways. Construction in progress.
T.F.M. 191	Village Bay Ferry Terminal - New second berth to accommodate expanded service to the Gulf Islands. Construction completed.
T.F.M. 192	Tsawwassen Ferry Terminal - Foot passenger walkways and preboarding building to connecting Berths No. 3 and 4 to the existing walkway. Construction completed.
	Transfer deck for upper level auto traffic joining Berths No. 3 and 4. Construction completed.
T.F.M. 198	Deas Maintenance Facility - New welding shop for B.C. Ferry Corporation. Construction completed.
T.F.M. 210	Tsawwassen Ferry Terminal - Double level automobile loading ramp and foot passenger loading tower for Berth No. 4. Construction completed.
M-212	Swartz Bay Ferry Terminal - Replacement or repair of wingwalls in Berths No. 3, 4 and 5. Construction completed.
T.F.M. 214	Swartz Bay Ferry Terminal - Double level automobile loading for Berth No. 2, including revisions to foot passenger walkway. Construction completed.
M-216	Tsawwassen Ferry Terminal - Relocation and renovations to hull maintenance building to create test kitchen facilities. Construction completed.
T.F.M. 218	Langdale and Saltery Bay Ferry Terminals - Provision of emergency electrical generators at each terminal. Construction completed.
T.F.M. 224	Otter Bay Ferry Terminal - Repairs to wingwalls. Construction completed.
T.F.M. 225	Horseshoe Bay Ferry Terminal - Double level loading for Berths No. 2 and 3 complete with transfer structure. Construction in progress.
M-226	Deas Maintenance Facilitity - Redredging of the basin. Dredging completed.
M-232	Langdale Ferry Terminal - Repairs to fill area slope protection. Construction completed.
M-233	Horseshoe Bay Ferry Terminal - Repairs to dolphins. Construction in progress.

MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

B-1139	Westview and Blubber Bay Ferry Terminals - New turning dolphin at Westview to accommodate the new ferry, "Princess of Vancouver". Repairs to port wingwall at Blubber Bay. Construction completed.
B.P. 1391	Campbell River Ferry Terminal - Two new berths and enlarged holding compound. Dredging completed.
W.O. 50486	Campbell River Ferry Terminal - Construction of illuminated marker dolphins in the dredge channel. Construction completed.
W.O. 50487	Sointula Ferry Terminal - New dolphins along port side of berth. Constructin completed.
W.O. 50488	Little River Ferry Terminal - Replacement of dolphin No. 4. Construction completed.

MAINTENANCE

In addition to the above operations, numerous maintenance projects as well as normal maintenance operations were carried out at all British Columbia Ferry Corporation Terminals and Ministry of Transportation and Highways Ferry Terminals under this jurisdiction.

REPORT OF DIRECTOR OF TRAFFIC ENGINEERING

H.F. Coupe P.Eng.

During the past year, although traffic activity continued at a high level in the Province, there were decreases in the number of vehicles using British Columbia highways from previous years. The Traffic Engineering Branch cooperated with individuals and organizations in the associated fields of traffic safety, traffic planning, standardization of traffic control devices and traffic operations.

The Director of Traffic Engineering represented the Ministry on the British Columbia Safety Council, the St. John Ambulance Highway First Aid Committee, the Roads and Transportation Association Council on Uniform Traffic Control Devices for Canada and the Roads and Transportation association Committee on Traffic Operations.

Short duration annual traffic counts were taken with automatic equipment at approximately 880 locations throughout the province. All short counts taken on Vancouver Island and in the Fraser Valley recorded traffic volumes separately for each direction of travel. Traffic volumes were recorded continuously throughout the year at 27 additional locations and 15 of these recorders counted traffic separately for each direction. A further 130 automatic counts were taken for special purposes such as railway crossing, intersection and planning studies.

Punched tape traffic counters are used almost exclusively so that calculation of traffic count information can be done with data processing equipment. A translator machine located in the Ministry computer room is used to transfer information from punched tapes to computer cards.

In the summer of 1971, the Branch began to install electronic loop detection systems at regular short count curation traffic count stations on high speed/high volume highways. The new detectors, replacing the rubber road tubes previously used, allow employees to set up counts on the shoulder without having to venture onto the travelled lanes. The program will be continued this summer.

Summer daily traffic volumes for 1982 showed approximately 59,000 vehicles on First Narrows Bridge; 71,000 vehicles on Port Mann Bridge; 70,000 vehicles on Oak Street Bridge; 54,000 vehicles on Knight Street Bridge; 61,000 vehicles on Pattullo Bridge and 69,000 vehicles in the George Massey Tunnel. Data from the permanent count stations showed decreases in 1982 over 1981 of approximately 6% in the Southern Interior; 2% in the Lower Mainland and 11% in the Northern Interior. Traffic volumes on Vancouver Island were unchanged.

During the year, horizontal curves on almost 3,200 km of Provincial Highway were checked for the correct advisory speed. Where necessary, it was recommended that appropriate curve and advisory speed tab sign assemblies be erected, revised or removed.

Numerous intersection problems were investigated during the year. Many vehicle turning movement counts were taken manually and designs prepared for improvements at approximately 35 intersections and median island projects. Improvements such as widening, channelization, signing and signal revisions were carried out at many of these intersections to give greater capacity, to reduce hazards and delay and to facilitate the flow of traffic. There has been a continuing increase in traffic problems referred to the Branch and in requests for signals, flashing beacons, crosswalks and overhead pedestrian crossings.

Many highway design plans were reviewed to ensure that intersections and interchanges would function with as few operation and capacity problems as possible.

Four railway grade crossings were signalized in cooperation with the Canadian Transport Committee and the railways.

Changing conditions necessitated reviews of many speed limits throughout the Province. The Ministry obtained the opinions of police forces in many cases, and where necessary, travel speeds were checked with radar.

A very heavy electrical design program including ferry terminals, major construction projects, street lighting and traffic signals continued again this year.

New traffic signals were installed at 33 intersections and signals at 29 intersections were reconstructed.

Intensive one week training seminars were put on at the Traffic Signal Shop covering the microprocessor controlled solid state traffic controllers, and nine Highways' electricians benefitted from this program.

Energy conservation is the primary design consideration again this year in the electrical section and more than 1,500 new sodium street lights were installed. Installation of new low level lighting for seven bridges on the Squamish Highway was completed.

All flourescent roadway lighting has been removed from the Highway lighting system in the Lower Mainland, with the exception of the Port Mann Bridge. Most of the provincial highway system is now illuminated with energy efficient high pressure sodium lighting.

In Region 1, sodium lighting was installed, along with a new electrical system, on the Pattullo Bridge replacing original equipment that was no longer reliable. Next year, the north approach lighting to this bridge should be upgraded.

REPORT OF HIGHWAY SAFETY ENGINEER

J. Lisman, P. Eng.

During 1982 the Branch was active in developing routines to process and interpret the accident information becoming available from the Highway Safety Improvement Computer Program. Where, previously, enquiries regarding accident "black spots" had to be dealt with using sketchy information, the availability of computerised accident record information has made more detailed investigation possible. This was applied to regular work such as considering intersections for traffic signal installation. It also improved the quality of replies being made by the Ministry to members of the public who write on matters touching on safety and accident hazard. An obvious consequence of having the better accident information available for analysis was a substantial increase in the Branch workload, in that more time was spent in carrying out the detailed analyses.

The daily experience of using the accident data showed where improvements in the collection and processing of the data could be made, and time was spent scrutinizing computer data on the video display terminals to increase its accuracy and reliability. Later, a simpler format was introduced to allow accident data along highways to be more easily read by non-technical people, and this was used in replies to M.L.A.'s. The practical use of the new accident data system was demonstrated at several locations where quick remedial action was taken to prevent a recurrence of a hazardous accident pattern, including selective guardrail installations.

A total of $123,426 was spent on six sub-projects to eliminate roadside hazards. One of these was a cushion-type impact attenuator installed where Highways 7 and 9 split near Agassiz. Another was the widening of an uphill shoulder on Highway 1A to eliminate an accident problem reported by local residents. Frangible bases were installed in a number of lamp standards to make them fracture more easily when struck by cars, reducing the injury to the car occupants.

The design of the new concrete barriers continued to completion by the end of the year, and the drawings were issued early to contractors to prepare them for the conversion to the new style in January, 1983. At the same time, design work continued on new arrangements of barriers to eliminate the severe accidents which result from vehicles striking the unprotected ends of barrier installations and bridges. Although bridge structures represent a small fraction of the total length of our road system, they have a high proportion of severe accidents. Several bridges constructed during the year had the new solid concrete parapets installed between vehicle traffic and pedestrian walkways.

The replacement of the water supply system to the Massey Tunnel, which is necessary for fire-fighting in the tunnel, involved the Branch in adapting median barrier designs to fit over the new pipes. This had to be done in a narrow space with restrictions on the times available to do the work, to prevent interruption of the busy peak-hour traffic flows. This relatively small-scale job was a good example of how the time spent in design and preparation can be very high in proportion to the cost of the physical works.

This was the third year of the School Route Improvement Programme and a total of 16 sub-projects, designed to provide wider roadside facilities for children to walk or cycle along to school, were being constructed at a total cost of $150,890. These works are very popular and the programme is continually renewed when new subdivisions are constructed, or school catchment areas are changed. The construction of a small footbridge in the Village of Chetwynd is the second time recently that this has been done to link pedestrian paths clear of the roadway. The effect of school budgets' restraints was felt in the Branch when many school boards sought to economize on courtesy busing and adult crossing-guards. In some cases the Branch assisted school boards to understand the specific road problems facing school-age pedestrians, and helped the boards to determine their priorities. However, in outer suburban areas it is still difficult to guarantee safe walking routes along narrower two-lane roads, especially in winter conditions, and very often transportation is necessary, whether by school bus or other vehicle.

A total of $65,123 was spent on general safety works which included realignment of a bend on Highway 3, termed "Suicide Corner" by the local residents, and a further application of a paint marking technique used to reduce the speed of vehicles travelling downhill to the Horseshoe Bay ferry terminal. The optical flickering effect of bands of white paint across the highway makes drivers feel that they are travelling fast and encourages them to slow down sooner. Four intersections were treated to reduce vehicle conflicts, at a cost of $102,456, by installing turning slots and realignment.

The Squamish Highway 99 continued to concern many road-users, and the Branch considered suggestions proposed by several members of the public. These suggestions were of assistance in clarifying the improvements which have been put into effect along the highway, notably the lighting of the more vulnerable wooden bridge structures.

The experimental system to take legally valid photographs of vehicle drivers violating red lights at traffic signals in Vernon was carried out, but mixed results were obtained. The electrical sensing layout was reviewed and certain modifications were prescribed to be installed during the spring of 1983, after which the experiment will be repeated. The long-term value of developing a successful surveillance system at intersections makes it worthwhile continuing efforts until a workable technique is proven.

The Highway Safety Engineer serves on the Federal-Provincial Standing Committee on Road Safety, and the Provincial Committee on Traffic Safety, chaired by Mr. R. Bourne.

Expenditures for Fiscal Year 1982/83

C0202	Roadside Hazard Elimination	$ 123,426.78
C0203	Intersection Improvements	102,456.72
C0204	School Route Improvements	150,890.00
C0205	General Safety Works	65,123.70
C0206	Demonstration Projects	3,362.08
C0209	General Expenses	37,855.99
	TOTAL	$ 483,115.27

REPORT OF THE DIRECTOR OF PLANNING

D.R. Parkes, P. Eng.

During 1982, the Planning Branch continued to show increased activity in several of its sections. Of particular note is the progress on pre-engineering and design work in connection with the Annacis System. Also, as the evolution of computer technology proceeds, more functions became subjects for automation and the groundwork laid in previous years continues to show good results. The Approving Section however, shows a reduced volume of access permits, final subdivisions, lots created and distances of new road dedication, thus reflecting a generally slower housing market and level of development activity. Not reflected in the data is an increase in cases in which people initiated subdivision applications, but for various reasons chose not to proceed to the final steps at that time.

Highway Planning Section

The primary function of this section is to develop comprehensive road transportation network plans, strategies and functional layouts in order to provide for short and long term solutions to transportation problems for metropolitan, urban, regional and rural areas. This work was continued from the previous year in 75 communities and a further 25 were initiated during the 1982/83 fiscal year. By the end of the 1982/83 fiscal year, technical agreement, and in most cases Municipal Council and Regional Board endorsements, has been achieved in 15 network studies.

The purpose of these studies is to identify the physical and land use limitations for transportation corridors prior to urban development and redevelopment so that feasible, effective and widely accepted corridors can be protected and acquired, and facilities built at minimum cost and with the least possible disruption to communities. Local jurisdictions are encouraged to adopt these network strategies as the transportation component of their official community plans and official settlement plans

The strategies are important elements in the assessment of applications from municipalities seeking Provincial cost sharing funds, under either the Revenue Sharing Act or the Secondary Highways Program. This planning work also provides guidance to the approving officers from both the Municipal and Provincial levels and gives a framework for decisions concerning zoning, subdivisions, access and the traffic impacts and internal layout of major land developments. This year the Highway Planning Section undertook several major functional corridor studies and other special projects throughout the Province. These projects were in response to individual and unique problems in various areas of the Province. A sample of these special projects is as follows: Golden Rail Relocation Study, Maple Ridge Donwtown Core Study, Annacis System - approach routes, Slocan Valley Planning Program, Nanaimo Bypass Study, Cassiar Street Corridor Study, Vanderhoof Rail/Road Grade Separation, Port Moody Core Area Study, Fern Street Interchange Improvement Study and Patricia Bay Highway Study.

The balance of the work relates to the section's role as a technical resource on a wide range of transportation related planning matters through participation on inter-Branch, inter-Ministry and inter-Agency committees and task forces.

Investigation Analysis System

In 1982 the Investigation/Analysis Group, established in 1979, continued the collection of travel information and continued to disseminate information on traffic patterns to a wide variety of users both within and outside the public sector. A computerized travel survey inventory system, which records all surveys from the design to report stages and provides for information retrieval, continues to provide a quick response to user requests for such information.

During 1982 the Group became involved in an inter-branch traffic information study, the goals of which included:

- reviewing current practices of traffic data collection.
- reviewing new systems approaches to data flow.
- analyzing various definitions and estimation techniques.
- matching traffic information to physical plant or financial data bases.

In 1982 further system improvements in analyzing data obtained in license plate surveys were made. The system which provides a graphical analysis of vehicle flow patterns through population centers or along highway links was expanded to include methodology to trace vehicular paths so that actual routes taken can be inferred.

The group's data collection activities in 1982 included a summer program involving 11 field crew and numerous surveys at other times requiring additional observers on a short duration basis. The 1982 summer program included:

1. License plate surveys which were conducted in 12 areas, requiring 129 person days, or 16% of the survey effort. These studies provide valuable information on travel routes and travel times in local areas without requiring any intervention in the normal flow of traffic. Locations included Victoria, Abbotsford, Courtenay and Salmon Arm.

2. Vehicle occupancy counts which monitor urban travel trends and the role of public transit were allocated 140 person days or 17% of the program.
3. Counts of vehicle movements at intersections made in 23 communities including Prince George, Nanaimo, North Vancouver and Campbell River for a total of 228 person days (28%). These counts are used in calculations of intersection capacities which help in setting priorities for improvements such as traffic control or extra lanes.
4. Roadside interviews conducted at three sites including Castlegar and Cranbrook, requiring 57 person days or 7% of the survey program. These studies permit forecasting of travel patterns in the event of changes to the inter-city network, allow monitoring of the level of recreational or tourist travel and have provided average trip length frequencies in a preliminary highway classification study.
5. Classifications of vehicles by different body types done at three sites requiring 17 person days (2%). The results are used in highway capacity and laning studies and assist in determining new truck weigh scale locations.
6. Trip generation surveys were conducted at several convenience store locations in Victoria and at three new waterslide developments in the Okanagan Valley. These studies investigate parking requirements for facilities near highways where congestion could affect traffic flow on the highway. These surveys required 25 person days or 3% of the summer crew effort. The remaining 17 person days were required for training, travel and setting up.

Due to a considerable demand for traffic and parking information at ski resorts, the group organized detailed traffic count surveys and questionnaire surveys at the Whistler, Big White, Silver Star, Kimberley and Panorama resorts in February and March. These surveys involved 104 person days of office staff time.

While in the Kimberley area, a survey of patrons using the Cranbrook Airport has undertaken to determine the need for a northern access to the airport. This study involved six man days in February.

Over the rest of the year, 60 man days were spent on license plate surveys and intersection counts most often in the Greater Vancouver area.

Annacis System Section

The principal function of this section is to manage the Ministry and consultant resources engaged in the planning, design and construction of the Annacis Island Bridge and highway system.

Consultant design teams continue design work on the steel and concrete alternatives for the main Fraser River structure. The Ministry has awarded a contract to carry out pile driving and loading tests so that the foundation design can be completed. Full contract drawings and specifications are expected to be available by September 1983.

Ministry staff are designing the north and south approach spans. This design work is expected to be completed by the end of 1983.

South of the Fraser River, detailed highway design work is underway for the section between the Nordel Interchange and 64th Avenue. A multi-discipline environmental impact assessment has been completed and mitigation and enhancement recommendations are being incorporated into the engineering design. South of 64th Avenue, a major highway alignment revision is under study. If acceptable to affected agencies, the revised alignment would result in significantly reduced highway costs.

The Ministry continues to assist the Municipality of Delta in the evaluation of various proposals for connections between the Annacis Highway and major municipal roads.

North of the Fraser River, the Ministry has reached agreement with the Municipality of Richmond and the City of New Westminster on highway alignments and road connections for Lulu Island. Detailed highway design work is underway and the design of the Annacis Channel swing bridge has been completed

The City of New Westminster has applied for Federal funding to relocate a portion of railway which will be advantageous to both the Queensborough residential area and to the Annacis Project.

At the north end of the Queensborough Bridge, major improvements to the road system are required to accommodate traffic growth that will result from both the Marine Way and Annacis Projects. Three basic alternatives are still under study by the City and Ministry. A consultant has been retained to appraise the community impacts while the Ministry is preparing an engineering comparison of the alternatives.

The Municipality of Richmond, the British Columbia Agricultural Land Commission and this Ministry have reached agreement-in-principle on the need and general corridor for a new four lane east/west highway through Richmond. A land use environmental study is currently underway to resolve specific alignment issues and to identify mitigation and enhancement strategies. Mapping for this alignment has been completed and Ministry staff have commenced highway design work.

The Ministry's Property Services Branch has acquired the majority of the required right-of-way for the Annacis System.

A number of construction activities have been undertaken. Approach fills to the new Annacis Channel moveable bridge have been constructed over very loose sands. These difficult geotechnical conditions necessitated the use of a construction technique known as vibro-floatation and special protection for a major waterline.

Several projects in the Nordel Interchange area were completed. The River Road Connector is nearly completed and ready for paving, hogfuel has been stockpiled, and the St. Mungo Cannery has been demolished. The grade at the south bridge approach has been built and surcharged and general grading in the Nordel Interchange area has been done.

A major archaeological excavation and interpretation program has commenced at the St. Mungo Cannery site. This program is jointly funded by the Ministry of Transportation and Highways and the Ministry of Provincial Secretary and Government Services.

Projects expected to commence in the near future include further sand dredging to stockpiles, pile driving and load tests, and the construction of pier protection works for the main bridge.

Municipal Programs Section

In 1982 there was a continuation of the Secondary Highway Program, the roads section of the Revenue Sharing Act Program and the Urban - Arterial Highway Program. The Ministry approved the amounts of $1,294,553 for construction and $378,908 for maintenance works carried out on 312 kilometres of secondary highways this year. Examination was undertaken and recommendations made to the Ministry of Municipal Affairs regarding approximately 190 applications received under the roads section of the Revenue Sharing Act. This resulted in grants totalling approximately $15,000,000 by the Ministry of Municipal Affairs for road related works on 75 of the applications. Negotiations were carried out with 27 municipalities concerning cost sharing work on urban street renewal and bridge assistance under Section 32(3) of the Highway Act. A large number of changes in classification were considered with the result that 21 Arterial Highways were rescinded and 21 new ones established. Five Secondary Highways were rescinded and four established. Comments and recommendations concerning 29 proposed boundary extensions, restructures and new incorporations were forwarded to the Ministry of Municipal Affairs.

Computer Systems Section

Significant work on computer systems proceeded in the past year, although restraint in Government expenditure has meant fewer hardware and software purchases. With the Highways computer network now largely in place, the Computer Systems Coordinator has emphasized organizational issues, integration and enhancements of existing systems and small scale testing of "leading edge" technology. The overall purpose has been to extract more benefit from existing dollars while laying the groundwork for high benefit initiatives to be considered when Provincial revenues improve.

A report and recommendation on future organization and directions for information systems in the Ministry was prepared as a discussion paper for senior management, while smaller scale studies were undertaken in the Bridge, Traffic and Building Services Branches to produce detailed plans. Considerable effort was made to extend advice and consultation to Regional and District officials as well as those in Headquarters.

While no major software projects were undertaken during the year, most systems received necessary enhancements and maintenance in response to changing needs. The Equipment Replacement Criteria and Communications Management Information Systems, both begun in the previous year, were carried to completion.

Some additions were made to terminal equipment at Headquarters, including a colour capability for business and presentation graphics. A number of personal computers were obtained, primarily for stand-alone use, to convert graphical data, to support various managers, and to allow testing and development of proposals for future systems. Many District Offices are still without printers, but the number was somewhat reduced during the year.

The Computer Systems Coordinator participated actively in a number of inter-Ministry committees involving computer mapping, communications and acted as secretary for the Inter-Ministry Information Systems Council.

Educational programs in computer related subjects were provided to over forty staff members throughout the Highway Operations and Administrative and Services Departments, involving some thirty-two different courses.

Highway Systems and Programs Section

Approximately 9,200 kilometres of major roads were photologged. Film was presented on 255 occasions to the officials of 11 Headquarters Branches as well as the executive and representatives of other ministries and agencies. The Royal Canadian Mounted Police also used the photolog in connection with a murder investigation in the Kamloops area.

Development of new procedures for the selection of projects for the Highway Capital Construction Program are continuing. Functional classification was applied to the major rural network and in selected urban areas. Statistics on population, traffic usage and highway facilities conditions have been assessed along with various reports on proposed projects in the Vancouver Island Region in order to systematically arrive at a Capital Construction Program schedule. Techniques for developing needs and priorities have been presented for executive approval.

Approving Section

The approval of land subdivision applications for all rural areas in the Province lies with the Ministry and is administrated through 38 District offices and six Regional offices. The Ministry approved 1,913 subdivision applications which created an additional 6,492 building lots and approximately 260 kilometres of highway were added to the system through dedication of road by subdivision.

The offices also approved the following applications:

Controlled Access Permits	432
Ordinary Driveway Permits	3,725
Zoning Bylaws	1,008
Other Permits	5,278

Regional Summary of Regulatory Activities 1982/83

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Burnaby	179	50	273	269	619	835	23.66	12.73
Kamloops	490	136	966	310	1800	1824	42.89	95.20
Nelson	361	63	428	55	748	931	32.27	44.47
Prince George	300	64	596	137	905	952	89.77	57.91
Terrace	77	53	190	29	241	268	23.28	28.16
Nanaimo	506	66	1272	208	965	1682	48.96	31.65
TOTALS	1913	432	3725	1008	5278	6492	260.83	270.12

(1) Subdivisions (Finals)
(2) Controlled Access Permits Issued
(3) Ordinary Access Permits Issued
(4) Zoning Bylaws Approved
(5) Other Permits
(6) Lots Created (Finals)
(7) Kilometres of new road dedicated (Finals)
(8) Hectares of widened right-of-way to existing highways.

CLASSIFICATION OF HIGHWAYS

(Under Part III of the Highway Act*)*

Statement Showing Highways Classified as at March 31, 1983

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
ABBOTSFORD (D)*	5R	Essendene Ave. & Huntington-Mission Hwy. (West Railway St.)	Arterial	0.80	—
	11R	Huntingdon-Mission Hwy.	Arterial	0.53	—
	336R	McCallum Road (East Side)	Arterial	0.37	—
	342R	McCallum Road (East Side)	Arterial	1.59	—
	381R	Trans-Canada Hwy. & Interchanges	Arterial	27.12	—
	402R	Trans-Canada Hwy.	Arterial	2.01	—
	403R	Huntingdon-Mission Hwy.	Arterial	4.70	—
	202B	No. 3 Road	Secondary	—	3.06
ALERT BAY (V)	647R	Fir Street	Arterial	2.76	—
ARMSTRONG (C)	270R	Vernon-Sicamous Hwy.	Arterial	0.84	—
	272B	Pleasant Valley Rd. & Smith Dr.	Secondary	—	2.82
	296B	Armstrong-Salmon River Rd.	Secondary	—	1.55
ASHCROFT (V)	580R	Ashcroft-Cache Ck. Hwy., 1st St., Barnes Ave. & Highland Valley Rd.	Arterial	4.26	—
BELCARRA (V)		NIL			
BURNABY (D)	1R	Kingsway	Arterial	6.79	—
	17R	Lougheed Hwy.	Arterial	9.90	—
	135R	Canada Way (Grandview-Douglas Hwy.)	Arterial	4.14	—
	272R	Tenth Ave. (north half)	Arterial	2.01	—
	293R	Barnet Hwy.	Arterial	10.27	—
	376R	Trans-Canada Hwy. & Interchanges	Arterial	22.90	—
	414R	Simon Fraser University Access Hwy. Hwy.	Arterial	3.41	—
	415R	Simon Fraser University Curtis Extension Road	Arterial	0.10	—
	618R	Grandview Hwy. (Clydesdale)	Arterial	0.09	—
	663R	Gaglardi Way	Arterial	0.96	—
	739R	Marine Way	Arterial	5.80	—
	14B	North Road (west half)	Secondary	—	2.25
	22B	Marine Drive	Secondary	—	5.31
BURNS LAKE (V)	298R	Burns Lake-Babine Road	Arterial	0.85	—
	731R	North Francois Highway	Arterial	0.73	—
	732R	Yellowhead Highway	Arterial	22.80	—
CACHE CREEK (V)	569R	Cariboo Hwy.	Arterial	0.82	—
	643R	Trans-Canada Hwy.	Arterial	5.85	—
CAMPBELL RIVER (D)	575R	Island Highway (via Discovery Crescent)	Arterial	16.56	—
	750R	Campbell River-Gold River Hwy.	Arterial	8.99	—
	188B	Brewster Lake Road	Secondary	—	3.06
CASTLEGAR (C)	452R	Southern Trans-Provincial Hwy.	Arterial	2.86	—
	626R	Columbia Avenue	Arterial	6.08	—
	261B	Columbia Avenue	Secondary	—	3.91

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
CENTRAL SAANICH (D)	170R	West Saanich Road	Arterial	7.32	—
	172R	Verdier Avenue	Arterial	1.24	—
	213R	Patricia Bay Hwy.	Arterial	6.92	—
	121B	Keating Cross Road	Secondary	—	3.22
	216B	Island View Rd., Saanich Cross Rd. & Central Saanich Rd.	Secondary	—	1.06
CHASE (V)	500R	Trans-Canada Hwy.	Arterial	1.61	—
	229B	Old Trans-Canada Hwy. (Chase Business Route)	Secondary	—	2.74
	282B	Pine Street	Secondary	—	0.95
CHETWYND (V)	675R	John Hart-Peace River Hwy.	Arterial	3.83	—
	717R	Hundson's Hope Highway	Arterial	2.27	—
CHILLIWACK (D)	260R	Chilliwack Lake Road	Arterial	1.24	—
	344R	Trans-Canada Hwy.	Arterial	24.65	—
	752R	Yale Road West	Arterial	3.45	—
	62B	Vedder Road	Secondary	—	5.25
	106B	Cultus Lake Road	Secondary	—	0.80
	174B	Yale Road East	Secondary	—	11.97
	277B	Vedder Mtn. Rd., Yarrow Central Rd. & Dyke Road	Secondary	—	8.14
	280B	Yale Road, Cheam Ave., Hope St., First Ave. & Broadway St.	Secondary	—	2.16
	281B	First Ave. & Broadway St.	Secondary	—	1.04
CLINTON (V)	387R	Cariboo Highway	Arterial	2.06	—
	391R	Pavilion-Clinton Road	Arterial	0.55	—
COLDSTREAM (D)	103R	Vernon-Slocan Hwy.	Arterial	14.48	—
	754R	Okanagan Hwy.	Arterial	2.03	—
COMOX (T)	291B	Comox Ave. & Anderton Rd.	Secondary	—	2.64
	293B	Comox Ave., Pritchard Road, Balmoral Ave., & Port Augusta St.	Secondary	—	2.30
COQUITLAM (D)	167R	Brunette Street	Arterial	0.64	—
	553R	Trans-Canada Hwy. & Interchanges	Arterial	11.67	—
	566R	Lougheed Hwy.	Arterial	11.76	—
	578R	Barnet Hwy.	Arterial	1.93	—
	722R	Mary Hill Bypass Interchange	Arterial	1.13	—
	14B	North Road (east half)	Secondary	—	2.25
	115B	Clarke Road	Secondary	—	1.69
COURTENAY (C)	653R	Island Highway	Arterial	4.31	—
	654R	Ryan Road	Arterial	2.72	—
	741R	Comox Road	Arterial	0.39	—
	742R	17th St. Bridge & New Island Hwy.	Arterial	1.29	—
	222B	Eighth St., Fitzgerald Ave. & Fifth Street	Secondary	—	0.88
	223B	Cumberland Road	Secondary	—	1.74
CRANBROOK (C)	628R	Southern Trans-Provincial Hwy.	Arterial	6.07	—
CRESTON (T)	718R	Southern Trans-Provincial Hwy.	Arterial	5.36	—
	275B	Erickson St., 17th Ave. & 16th Ave.	Secondary	—	2.03

Statement Showing Highways Classified as at March 31, 1983— Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
CUMBERLAND (V)	266B	Courtenay-Cumberland Rd. (Fourth St. & Cumberland Rd.)	Secondary	—	1.52
	274B	Royston Rd.-Dunsmuir Ave.-Suttons Rd.	Secondary	—	2.33
DAWSON CREEK (C)	257R	John Hart-Peace River Hwy.	Arterial	0.61	—
	363R	Alaska Hwy., Alaska Ave. & Dawson Ck.-Spirit River Hwy.	Arterial	5.18	—
	740R	Dawson Creek-Tupper Hwy (Eighth St.)	Arterial	7.07	—
	196B	Eighth St.	Secondary	—	1.72
DELTA (D)	349R	Tsawwassen Hwy.	Arterial	10.35	—
	350R	Point Roberts Hwy.	Arterial	4.57	—
	352R	Scott Road (west side)	Arterial	7.92	—
	353R	Vancouver-Blaine Hwy.	Arterial	14.76	—
	530R	Roberts Bank Road	Arterial	5.31	—
	685R	Ladner-Langley Hwy.	Arterial	13.26	—
	721R	Swenson Road	Arterial	925 m	—
	734R	Annacis Island Hwy.	Arterial	9.00	—
	746R	River Road Connector (Nor Del Interchange)	Arterial	0.61	—
DUNCAN (C)	281R	Trans-Canaday Hwy.	Arterial	1.21	—
	282R	Trunk Rd. & Government St.	Arterial	2.01	—
	119B	Tzouhalem Rd.	Secondary	—	1.09
ELKFORD (D)	729R	Elk Valley Rd.	Arterial	8.20	—
	743R	Fording Mine Road	Arterial	15.00	—
ENDERBY (C)	36R	Vernon-Sicamous Hwy.	Arterial	1.79	—
	125B	Cliff Street	Secondary	—	0.26
ESQUIMALT (D)	472R	Craigflower Road	Arterial	2.65	—
	246B	Tillicum Road	Secondary	—	0.53
FERNIE (C)	646R	Southern Trans-Provincial Hwy.	Arterial	3.80	—
FORT NELSON (V)		NIL			
FORT ST. JAMES (V)	680R	Lakeshore Dr. & Resort Hill Rd.	Arterial	1.45	—
	728R	Vanderhoof-Stuart Lake Hwy. (Douglas Ave. & Stuart Dr. W.) & Germansen Landing Rd.	Arterial	4.15	—
	738R	Tachie Road	Arterial	4.27	—
FORT ST. JOHN (C)	279R	100 St. (MacKenzie St.)	Arterial	3.43	—
	658R	100 Ave. (Centre Ave.)	Arterial	3.20	—
	682R	Alaska Highway	Arterial	4.41	—
FRASER LAKE (V)	735R	Yellowhead Highway	Arterial	2.68	—
FRUITVALE (V)	202R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	2.98	—
	129B	Columbia Gardens Rd.	Secondary	—	1.29
GIBSONS (T)	606R	Sunshine Coast Hwy.	Arterial	2.99	—
	226B	Gower Point Road	Secondary	—	1.95
	227B	North Road	Secondary	—	0.80

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
GOLDEN (T)	604R	Trans-Canada Hwy.	Arterial	4.07	----
	639R	Kootenay-Columbia Hwy. (Golden Bypass)	Arterial	3.40	----
	745R	Kootenay-Columbia Hwy.	Arterial	3.90	----
GOLD RIVER (V)	677R	Muchalat Drive	Arterial	3.71	----
	678R	Gold River Road	Arterial	1.16	----
GRAND FORKS (C)	464R	Southern Trans-Provincial Hwy.	Arterial	4.80	----
GRANISLE (V)	527R	Granisle Arterial	Arterial	1.45	----
GREENWOOD (C)	619R	Southern Trans-Provincial Hwy.	Arterial	3.38	----
HARRISON HOT SPRINGS (V)	161R	Harrison Hot Springs Road and Lillooet Avenue	Arterial	4.25	----
HAZELTON (V)	590R	Hazelton Arterial	Arterial	2.40	----
	597R	Hazelton Access Road	Arterial	1.50	----
HOPE (T)	179R	Southern Trans-Provincial Hwy.	Arterial	2.65	----
	180R	Trans-Canada Hwy.	Arterial	1.69	----
	159B	Kawkawa Lake Road	Secondary	----	0.51
	160B	Sixth Avenue	Secondary	----	0.21
HOUSTON (D)	620R	Yellowhead Highway	Arterial	13.39	----
HUDSON'S HOPE (D)	520R	Peace River Canyon Road	Arterial	23.82	----
	521R	Chetwynd-Hudson's Hope-Charlie Lake Hwy.	Arterial	38.70	----
	715R	Beryl Prairie Road	Arterial	12.47	----
INVERMERE (V)	674R	13th Ave., 13th St., 7th Ave., 5A St., 7th St., & 3rd Ave.	Arterial	2.69	----
KASLO (V)	450R	Balfour-Kaslo-Galena Bay Hwy. & Kaslo-New Denver Hwy.	Arterial	2.99	----
	473R	Balfour-Kaslo-Galena Bay Hwy.	Arterial	1.19	----
KAMLOOPS (C)	694R	Trans-Canada Hwy.	Arterial	32.72	----
	696R	Princeton-Kamloops Hwy.	Arterial	5.67	----
	716R	Yellowhead South Hwy.	Arterial	12.59	----
KELOWNA (C)	691R	Okanagan Hwy.	Arterial	20.91	----
	692R	Rock Creek-Kelowna Hwy.	Arterial	9.10	----
	701R	Rutland Road	Arterial	2.76	----
KENT (D)	160R	Harrison Hot Springs Road	Arterial	3.81	----
	290R	Rockwell Drive	Arterial	6.44	----
	545R	Agassiz Bypass	Arterial	2.74	----
	588R	Lougheed Hwy.	Arterial	33.50	----
	614R	Agassiz-Rosedale Hwy.	Arterial	4.59	----
KEREMEOS (V)	438R	Southern Trans-Provincial Hwy.	Arterial	2.00	----
	439R	Keremeos-Kaleden Junction	Arterial	0.82	----
KIMBERLEY (C)	557R	St. Mary's Lake Road	Arterial	4.02	----
	558R	Cranbrook-Kimberley-Wasa Hwy.	Arterial	9.49	----
KITIMAT (D)	277R	Terrace-Kitimat Hwy.	Arterial	6.84	----
	503R	Road to Industrial Area	Arterial	2.90	----
LADYSMITH (T)	577R	Trans-Canada Hwy.	Arterial	5.07	----
	176B	Chemainus Road	Secondary	----	1.45

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
LAKE COWICHAN (V)	679R	S. Shore Rd. & Lake Cowichan Rd.	Arterial	2.48	—
LANGLEY (C)	263R	Fraser Hwy.	Arterial	4.83	—
	576R	200th St. (Carvolth Rd.)	Arterial	0.11	—
	665R	Langley Bypass	Arterial	1.27	—
	700R	Ladner-Langley Hwy.	Arterial	2.64	—
	256B	200tn St. (Carvolth Rd.)	Secondary	—	3.22
LANGLEY (D)	77R	Aldergrove-Bellingham Hwy.	Arterial	6.50	—
	259R	Ladner-Langley Hwy. & Glover Rd.	Arterial	9.66	—
	262R	Fraser Hwy.	Arterial	17.70	—
	368R	County Line Rd. (Aldergrove-Bellingham Hwy.)	Arterial	4.34	—
	380R	Trans-Canada Hwy. & Interchanges	Arterial	32.86	—
	445R	200th St. (Carvolth Rd.)	Arterial	5.02	—
	457R	Ladner-Langley Hwy.	Arterial	2.78	—
LILLOOET (V)	635R	Lytton-Lillooet Hwy.	Arterial	705.49 m	—
	662R	Nugget Road	Arterial	930 m	—
	760R	Lillooet-Pioneer Road, Main St. & Seton Lake Rd.	Arterial	3.40	—
LIONS BAY (V)	518R	Garibaldi Hwy.	Arterial	2.59	—
LOGAN LAKE (V)	641R	Meadow Creek Road	Arterial	3.73	—
	753R	Mamit Lake Road	Arterial	1.27	—
LUMBY (V)	567R	Vernon-Slocan Hwy.	Arterial	2.78	—
	279B	Shuswap Ave.	Secondary	—	2.66
LYTTON (V)	108R	Lytton-Lillooet Hwy. (Sixth & Fraser Streets)	Arterial	0.45	—
	478R	Trans-Canada Hwy.	Arterial	1.21	—
	479R	Lytton S. Approach & Main St.	Arterial	1.45	—
MCBRIDE (V)	526R	Yellowhead Highway	Arterial	1.19	—
	236B	First Ave. & Main St.	Secondary	—	1.25
MACKENZIE (D)	436R	MacKenzie Hwy. & Parsnip River Rd.	Arterial	20.44	—
MAPLE RIDGE (D)	22R	Lougheed Hwy.	Arterial	20.05	—
	407R	River Rd. & 17th Ave.	Arterial	0.39	—
	689R	222nd St. & River Rd.	Arterial	2.54	—
	253B	Dewdney Trunk Rd. & 224th St.	Secondary	—	17.94
	254B	232nd St. & Fern Crescent	Secondary	—	6.44
MASSET (V)	494R	Harrison Ave., Delkatla St., Hodges Ave., Delkatla Causeway, Shore Rd. & Queen Charlotte City-Masset Rd.	Arterial	4.59	—
	640R	Tow Hill Road	Arterial	7.72	—
MATSQUI (D)	337R	McCallum Rd. (West side)	Arterial	1.91	—
	356R	Trans-Canada Hwy.	Arterial	13.82	—
	422R	Fraser Hwy.	Arterial	5.79	—
	671R	Huntingdon-Mission Hwy.	Arterial	8.23	—
	186B	South Fraser Way	Secondary	—	4.26
MERRITT (C)	73R	Merritt-Spences Bridge Hwy.	Arterial	1.61	—
	708R	Princeton-Kamloops Hwy.	Arterial	4.26	—

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
MIDWAY (V)	458R	Southern Trans-Provincial Hwy.	Arterial	7.21	—
	459R	Midway-U.S. Customs Rd.	Arterial	1.98	—
MISSION (D)	23R	Lougheed Highway	Arterial	14.64	—
	25R	Lougheed Hwy. (1st Ave.)	Arterial	2.25	—
	563R	Huntingdon-Mission Hwy.	Arterial	2.38	—
	605R	Lougheed Hwy. (North Railway Ave.)	Arterial	2.08	—
	672R	Huntingdon-Mission Hwy. (Northwest Approach)	Arterial	2.08	—
	77B	Dewdney Trunk Road	Secondary	—	24.94
	260B	Shook Road	Secondary	—	0.72
	283B	Grand St., Seventh Ave. & Cedar	Secondary	—	5.15
MONTROSE (V)	246R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.61	—
NAKUSP (V)	484R	Vernon-Slocan Hwy., Nelson Ave. & Broadway St.	Arterial	1.87	—
	540R	Nakusp-Mica Ck. Hwy. (Broadway St., 6th Ave. W. & Canyon Rd.)	Arterial	3.89	—
NANAIMO (C)	355R	Brechin Road	Arterial	1.05	—
	687R	Trans-Canada Hwy.	Arterial	10.44	—
	688R	Island Hwy.	Arterial	11.35	—
	221B	Esplanade & Front St.	Secondary	—	0.56
NELSON (C)	559R	Castlegar-Nelson-Creston Hwy.	Arterial	4.99	—
	560R	Nelson-Nelway Hwy.	Arterial	2.30	—
NEW DENVER (V)	88R	Vernon-Slocan Hwy.	Arterial	1.46	—
	291R	Kaslo-New Denver Hwy. (Sixth Ave. & Victoria St.)	Arterial	0.71	—
NEW HAZELTON (D)	709R	Yellowhead Hwy.	Arterial	7.00	—
	710R	New Hazelton Hi-Level Rd.	Arterial	0.60	—
NEW WESTMINSTER (C)	734R	Annacis Island Highway	Arterial	1.60	—
NORTH COWICHAN (D)	168R	Trans-Canada Hwy.	Arterial	19.47	—
	248R	Mt. Sicker Rd., Chemainus Rd., Crofton Rd. & Chaplin Rd.	Arterial	6.76	—
	249R	Cowichan Lake Road	Arterial	5.31	—
	482R	Cowichan Valley Hwy.	Arterial	5.57	—
	723R	Tanzor Road	Arterial	0.80	—
	169B	Chemainus Road	Secondary	—	7.88
	269B	Oak Street	Secondary	—	0.97
NORTH SAANICH (D)	411R	West Saanich Road	Arterial	9.01	—
	412R	Wains Road	Arterial	2.41	—
	416R	Lochside Drive	Arterial	0.71	—
	453R	Patricia Bay Hwy.	Arterial	6.39	—
	510R	Dolphin Rd. & Swartz Bay Rd.	Arterial	0.48	—
	585R	Canora Road	Arterial	0.97	—
	193B	McTavish Road	Secondary	—	3.54
NORTH VANCOUVER (C)	612R	Trans-Canada Hwy. & Interchanges	Arterial	4.81	—
NORTH VANCOUVER (D)	157R	Main St., Dollarton Hwy., & Deep Cove Road	Arterial	9.19	—
	611R	Trans-Canada Hwy. & Interchanges	Arterial	12.31	—
	199B	Riverside Dr. & Mount Seymour Parkway	Secondary	—	3.83

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
OAK BAY (D)	162B	Cadboro Bay Road	Secondary	—	3.38
	290B	Cedar Hill Cross Rd.	Secondary	—	1.60
OLIVER (V)	441R	Okanagan Hwy. (First Ave.)	Arterial	1.77	—
	212B	Seventh St. & McKinney Rd.	Secondary	—	1.06
100 MILE HOUSE (V)	608R	Cariboo Hwy.	Arterial	2.40	—
	714R	Exeter Truck Route & Exeter Station Rd.	Arterial	1.23	—
	271B	Horse Lake Road	Secondary	—	0.85
OSOYOOS (V)	656R	Southern Trans-Provincial Hwy.	Arterial	5.53	—
	657R	Okanagan Hwy.	Arterial	1.60	—
	264B	Eighty-Ninth St. & Sixty-Fourth Ave.	Secondary	—	1.48
PARKSVILLE (T)	177R	Parksville-Port Alberni Tofino Hwy. Tofino Hwy.	Arterial	1.22	—
	706R	Island Highway	Arterial	3.67	—
	707R	Parksville Bypass	Arterial	1.10	—
PEACHLAND (D)	367R	Okanagan Hwy.	Arterial	11.27	—
	633R	Princeton Avenue	Arterial	5.31	—
PEMBERTON (V)	761R	Pemberton Meadows Road and Pemberton Portage Road	Arterial	1.67	—
	762R	Garibaldi Hwy. & Pemberton Portage Road	Arterial	7.40	—
PENTICTON (C)	634R	Okanagan Hwy.	Arterial	8.46	—
	638R	Martin St.	Arterial	1.10	—
	650R	Penticton Channel Parkway	Arterial	6.24	—
	135B	Penticton-Naramata Road	Secondary	—	8.85
	273B	South Main St. & Lakeside Drive	Secondary	—	6.18
PITT MEADOWS (D)	21R	Lougheed Highway	Arterial	5.20	—
	74B	Harris Road	Secondary	—	2.74
	75B	Hammond Road	Secondary	—	1.45
	78B	Harris Road	Secondary	—	3.06
	79B	McNeil Road	Secondary	—	3.22
	92B	Old Dewdney Trunk Road	Secondary	—	5.63
PORT ALBERNI (C)	33R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.90	—
	152R	Parksville-Port Alberni-Tofino Hwy. (River Road)	Arterial	2.57	—
	39B	Beaver Creek Road	Secondary	—	0.69
PORT ALICE (V)		NIL			
PORT CLEMENTS (V)	733R	Queen Charlotte City-Masset Rd.	Arterial	2.62	—
	744R	Cedar Ave., Jasper St., Bayview Dr., Bayview Crescent & Juskatla Bay Rd.	Arterial	4.20	—
PORT COQUITLAM (C)	594R	Lougheed Hwy.	Arterial	5.23	—
	673R	Mary Hill Bypass	Arterial	2.42	—
	288B	Pitt River Rd., McLean Ave. & & Kingsway Ave.	Secondary	—	3.96

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
PORT EDWARD (V)	599R	Port Edward-Cassiar Cannery Rd.	Arterial	14.24	—
	686R	Yellowhead Highway	Arterial	27.00	—
PORT HARDY (D)	504R	Hardy Bay Road	Arterial	3.96	—
	506R	Island Highway	Arterial	2.29	—
	621R	Byng Road	Arterial	3.03	—
	713R	Island Highway	Arterial	9.40	—
	737R	Douglas St. & Holberg Rd.	Arterial	4.50	—
	240B	Airport Rd.	Secondary	—	2.67
PORT MCNEILL (T)	507R	Campbell Way	Arterial	1.93	—
PORT MOODY (C)	200R	Barnet Highway	Arterial	6.32	—
	632R	Ioco-Port Moody Rd. & Knowle Drive	Arterial	4.25	—
	116B	Clarke Road	Secondary	—	1.29
	265B	Knowle Drive	Secondary	—	2.21
POUCE COUPE (V)	602R	Dawson Creek-Tupper Hwy.	Arterial	1.43	—
POWELL RIVER (D)	397R	Wharf Street	Arterial	0.14	—
	603R	Sunshine Coast Highway (Marine Ave., Ash Ave., Poplar St., Arbutus Ave. & Lund St.)	Arterial	14.48	—
	143B	Duncan Street	Secondary	—	2.74
PRINCE GEORGE (C)	697R	Yellowhead Highway	Arterial	26.38	—
	698R	Cariboo Hwy. & John Hart-Peace River Hwy.	Arterial	27.75	—
	699R	Aitcheson Rd. & Airport Rd.	Arterial	3.75	—
PRINCE RUPERT (C)	487R	Co-op Rd., Park Ave., Second Ave., McBride St. & Yellowhead Hwy.	Arterial	15.05	—
	730R	Ridley Island Access Road	Arterial	6.73	—
PRINCETON (T)	586R	Princeton-Kamloops Hwy.	Arterial	2.11	—
	587R	Tulameen Road	Arterial	2.99	—
	589R	Southern Trans-Provincial Hwy.	Arterial	3.54	—
	203B	Bridge Street	Secondary	—	0.64
QUALICUM BEACH (T)	94R	Island Highway	Arterial	5.25	—
	154R	Alberni Road, Second Ave., & Memorial Ave.	Arterial	2.57	—
	435R	Island Hwy. (Qualicum Beach Diversion)	Arterial	2.56	—
QUESNEL (C)	533R	Ewing St. & Fraser River Bridge	Arterial	0.39	—
	591R	Elliott St. & Blackwater Rd.	Arterial	2.04	—
	702R	Cariboo Highway	Arterial	7.72	—
	703R	Barkerville Highway	Arterial	0.15	—
	748R	Anderson Dr., Marsh Dr., Moffat Bridge & Approaches	Arterial	3.85	—
REVELSTOKE (C)	756R	Trans-Canada Hwy.	Arterial	8.80	—
	757R	Nakusp-Mica Creek Hwy.	Arterial	8.20	—
	758R	Victoria Rd., Wright St., Douglas St., Wilson St. & Big Eddy Rd.	Arterial	2.60	—
	295B	Victoria Road, Railway Avenue Fourth St., Townley St. & Revelstoke Eastern Access	Secondary	—	4.50

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
RICHMOND (D)	295R	Sea Island Highway	Arterial	1.50	—
	301R	Vancouver-Blaine Hwy.	Arterial	10.03	—
	343R	Westminster Hwy.	Arterial	10.38	—
	564R	Knight Street	Arterial	7.11	—
	734R	Annacis Island Hwy.	Arterial	1.30	—
	234B	No. 3 Rd. & Bridgeport Rd.	Secondary	—	3.70
ROSSLAND (C)	418R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.69	—
	622R	Rossland-Paterson Hwy. & Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	4.02	—
SAANICH (D)	529R	West Saanich Rd. & Royal Oak Dr.	Arterial	8.93	—
	538R	Trans-Canada Hwy.	Arterial	4.38	—
	660R	Patricia Bay Highway	Arterial	14.55	—
	661R	Trans-Canada Hwy.-Patricia Bay Highway Connector	Arterial	0.85	—
	681R	McKenzie Ave.	Arterial	2.08	—
	148B	Tillicum Road	Secondary	—	0.14
	154B	Gorge Road	Secondary	—	2.74
	237B	Quadra Street	Secondary	—	4.99
	238B	West Saanich Rd.	Secondary	—	1.21
SALMO (V)	668R	Southern Trans-Provincial Hwy.	Arterial	1.05	—
	669R	Nelson-Nelway Hwy.	Arterial	1.02	—
	670R	Fourth Street	Arterial	0.58	—
SALMON ARM (D)	655R	Grindrod-Salmon Arm Hwy.	Arterial	5.50	—
	683R	Trans-Canada Highway	Arterial	22.43	—
	23B	Salmon Arm-Enderby	Secondary	—	1.11
	24B	Salmon Arm-Enderby	Secondary	—	6.76
	80B	Salmon Arm-Enderby	Secondary	—	0.34
	217B	Salmon Arm-Grand Prairie Rd.	Secondary	—	9.98
SAYWARD (V)	693R	Sayward Highway	Arterial	4.38	—
SECHELT (V)	244R	Porpoise Bay Road	Arterial	1.05	—
	320R	Sunshine Coast Highway	Arterial	1.58	—
SIDNEY (T)	292R	Ocean Avenue	Arterial	0.29	—
	388R	Patricia Bay Highway	Arterial	3.03	—
	389R	Lochside Dr. & Fifth St.	Arterial	1.67	—
	390R	Beacon Avenue	Arterial	0.53	—
	194B	Fifth St., Malaview Ave. & Resthaven Drive	Secondary	—	2.86
	207B	First St. & Beacon Ave.	Secondary	—	0.85
	228B	McDonald Park Rd. (E. half)	Secondary	—	0.40
SILVERTON (V)	443R	Vernon-Slocan Highway	Arterial	0.95	—
SLOCAN (V)	581R	Vernon-Slocan Highway	Arterial	67.06 m	—
SMITHERS (T)	607R	Yellowhead Highway	Arterial	4.19	—
SPALLUMCHEEN (D)	271R	Vernon-Sicamous Hwy.	Arterial	21.73	—
	153B	Pleasant Valley Hwy.	Secondary	—	3.62
	171B	Armstrong-Salmon River Hwy.	Secondary	—	11.83
SPARWOOD (D)	448R	Corbin Road	Arterial	1.13	—
	489R	Elk Valley Road	Arterial	5.71	—
	724R	Southern Trans-Provincial Hwy.	Arterial	26.71	—
	755R	Elk Valley Road	Arterial	4.52	—

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
SQUAMISH (D)	399R	Darrel Bay Road	Arterial	0.32	—
	406R	Alice Lake Road	Arterial	0.58	—
	648R	Garibaldi Highway	Arterial	29.00	—
	649R	Squamish Valley Road	Arterial	5.25	—
	284B	Mamquam (Garibaldi Park) Rd.	Secondary	—	3.82
STEWART (D)	584R	Stewart-Meziadin Lake Hwy.	Arterial	17.06	—
SUMMERLAND (D)	238R	Okanagan Hwy.	Arterial	11.27	—
	270B	North Prairie Valley Rd.	Secondary	—	6.52
	289B	Fish Lake Road	Secondary	—	1.74
SURREY (D)	114R	Campbell River Road	Arterial	1.61	—
	125R	Ladner-Langley Hwy.	Arterial	10.04	—
	139R	Scott Road	Arterial	11.33	—
	269R	Ladner-Langley Hwy.	Arterial	4.46	—
	314R	Old Yale Rd. & Bridge Rd.	Arterial	1.21	—
	371R	Vancouver-Blaine Hwy. & Interchanges	Arterial	22.93	—
	379R	Trans-Canada Hwy. & Interchanges	Arterial	22.56	—
	384R	King George Hwy.	Arterial	27.02	—
	385R	Fraser Hwy.	Arterial	14.08	—
	455R	Ladner-Langley Hwy.	Arterial	0.97	—
	554R	Pacific Highway	Arterial	19.20	—
	150B	Campbell River Road	Secondary	—	2.41
	151B	Marine Dr., Stevenson Rd. & Crescent Road	Secondary	—	9.25
	182B	152nd St. (Johnston Road)	Secondary	—	2.41
TAHSIS (V)		NIL			
TAYLOR (V)	601R	Alaska Highway	Arterial	4.41	—
	161B	Taylor-Peaceview Road	Secondary	—	1.53
TELKWA (V)	440R	Yellowhead Highway	Arterial	2.30	—
	749R	Telkwa High Road & Tyhee Rd.	Arterial	1.11	—
	286B	Telkwa Coal Road	Secondary	—	1.60
TERRACE (D)	570R	Kalum Lake Road	Arterial	3.22	—
	595R	Yellowhead Highway	Arterial	5.95	—
TOFINO (V)	547R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.56	—
TRAIL (C)	704R	Paterson-Rossland-Castlegar Hwy.	Arterial	2.02	—
	711R	Smelter Hill Road	Arterial	2.64	—
	751R	Rossland Ave., Victoria St., Columbia River Bridge, Bailey St., and Nancy Greene Lake-Rossland Meadows Hwy.	Arterial	7.40	—
	285B	Warfield Hill Road	Secondary	—	2.53
TUMBLER RIDGE (D)	726R	Chetwynd-Tumbler Ridge Rd.	Arterial	29.00	—
	727R	Heritage Highway	Arterial	39.00	—
UCLUELET (V)	192R	Tofino-Ucluelet Road (Penninsula Rd. & Main St.)	Arterial	1.82	—
VALEMOUNT (V)	432R	Fifth Avenue	Arterial	1.06	—
VANCOUVER (C)	375R	Trans-Canada Highway	Arterial	1.56	—

Statement Showing Highways Classified as at March 31, 1983—Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
VANDERHOOF (D)	233R	Vanderhoof-Stuart Lake Hwy. (Burrard Ave.)	Arterial	1.53	—
	667R	Yellowhead Highway	Arterial	24.05	—
	287B	Kenney Dam Road	Secondary	—	2.89
VERNON (C)	573R	Okanagan Highway	Arterial	6.41	—
	684R	Vernon-Slocan Highway	Arterial	2.85	—
	251B	Twenty-Seventh St.	Secondary	—	1.85
VICTORIA (C)		NIL			
WARFIELD (V)	623R	Nancy Greene Lake-Rossland Meadows Hwy.	Arterial	2.59	—
WEST VANCOUVER (D)	89R	Marine Drive Addition	Arterial	0.16	—
	250R	Taylor Way	Arterial	1.13	—
	289R	Garibaldi Hwy.	Arterial	5.31	—
	372R	Marine Drive	Arterial	0.80	—
	613R	Trans-Canada Highway & Interchanges	Arterial	30.83	—
WHISTLER (R)	759R	Garibaldi Highway	Arterial	27.00	—
WHITE ROCK (C)	149B	Marine Drive	Secondary	—	5.02
WILLIAMS LAKE (T)	659R	Chilcotin-Bella Coola Hwy.	Arterial	3.12	—
	676R	Cariboo Highway	Arterial	3.57	—
	736R	MacKenzie Avenue	Arterial	7.40	—
ZEBALLOS (V)	196R	Zeballos Road	Arterial	1.61	—
			TOTALS	2013.45	320.14

REPORT OF THE DIRECTOR OF CONSTRUCTION

N.R. Zapf

During the year ending March 31, 1983, the Construction Branch was responsible for administering 35 major projects. Total value of works under construction was about $225,000,000. Of these, five were undertaken by day labour, three by a combination of day labour and contract, and the remainder by contract. Nineteen of the contracts continued from the previous year, while the remaining 12 were awarded in 1982. The total expenditure for the 1982/83 fiscal year is expected to be about $91,000,000.

Good progress occurred on almost all projects, despite a generally wet construction season and a fairly late spring break-up in interior parts of the Province. Favourable fall weather saw good progress on all projects, especially the critical Northeast Coal Development Road.

Work was virtually completed on the Revelstoke-Mica section of Highway 23; with six of the 14 projects on this route completed in 1982/83. Only some clean-up and slide remedial work remains. The remaining projects were completed in previous years. Construction of the Revelstoke Dam and the coming impoundment of lower-lying land to the north in 1983 necessitated relocation of 90.9 km of road. Road construction began in early 1979 and finished in November, 1982, and represents a major effort on the part of the contractors and the Ministry. These projects involved construction to crushed gravel base, with paving being followed in separate contracts. Total construction cost of the Revelstoke-Mica relocation was $100,000,000. Paving has now been completed on all but the six projects completed in 1982/83.

A major effort was made in 1982/83 by the contractors and the Ministry on the Northeast Coal Development Road. Three contracts were active in the 1981/82 fiscal year and the remaining four contracts were awarded in 1982/83. One contract was completed and the remaining projects all progressed excellently. The contracts are for grading and preliminary gravelling. Bridge contracts have been awarded in conjunction with the grading contracts, and paving contracts will follow. Approximately 60% of the grading contracts are complete. Completion of the grading contracts is now scheduled for early to mid-fall of 1983.

Work continued on the Coquihalla Route and a project midway along the route has been completed. Major rockwork and earthwork were done, and preliminary gravelling of the four-lane design completed.

Throughout the Province, many signficant four-lane projects were completed. Projects completed included the Hart Highway north of Prince George, Okanagan Highway south of Kelowna, Crowsnest Highway through the Hope Slide, the Island Highways north of Nanaimo, and the Yellowhead Highway north of Kamloops.

Also completed in 1982/83 were several important two-lane projects. The Cheakamus Canyon section on the Squamish Highway, the access road from Highway 16 to Ridley Island, the Summit Lake section of the Hart Highway, were all completed, paved, and opened to traffic. Grading of the Kasiks River-Backwater Creek section of the Yellowhead Highway west of Terrace was completed and will be paved by a later contract.

Table 1 gives a breakdown of contracts by type being carried out 1982/83:

Table 1

	Two-Lane	Four-Lane	Total
Urban Reconstruction/Relocation	-	3	3
Urban New Route	1	3	4
Rural Reconstruction/Relocation	10 *	2	12
Rural New Route	8 /	1	9
Other	-	-	3
	19	9	31
Grading Only	16 */		
Grading and Paving combined	12		
Other	3		

* Includes six contracts on Highway 23, Revelstoke-Mica

/ Includes seven contracts on Northeast Coal Development Road

Work continued on the new Annacis Route with most progress on the Annacis Island moveable bridge and in the proposed Nordel Exchange (south side of Fraser River crossing). Main project under way is a major dredging project. Construction of sand islands in the Fraser River upon which the main bridge piers will stand is scheduled as the next major grading project. Interactions with many environmental and conservation groups is a major consideration in all Annacis projects.

Towards 1982/83 year's conclusion, 14 new projects were advertised for tendering for an accelerated construction program. Awarding and construction will take place early in the 1983/83 fiscal year.

Table 2 gives overall project statistics for the year:-

Table 2

(a) Distances

Under construction	235 km
Two-Lane road built	99 km
Four-Lane road built	57 km
Paved	256 lane-km

(b) Quantities

Clearing and Grubbing	780 ha
Excavation - Rock	925,000 m^3
Excavation - Other materials	8,950,000 m^3
Select Granular Sub-base	1,340,000 t
Crushed Granular Base and Surfacing	635,000 t
Asphaltic Concrete	269,000 t

ANNACIS ROUTE, MAJOR PROJECTS 1982/83

Project Number	Location and Description	Date Started	Date Completed	Percent Complete	Remarks
C-1150	Fraser River Crossing, Supply of Dredged Material	Feb/83	--	35	Dredging sand on Annacis Island and Nordel Exchange area for future works
C-1304	Annacis Channel Moveable Bridge, Approach Fills	Mar/82	Dec/82	100	Placing approach fills for bridge. Included sheet pile hanging of Greater Vancouver Regional District water pipe main during settlement, wick drain installation, and fill surcharge.
C-1304 -0001	Annacis Channel Moveable Bridge, Vibroreplacement Compaction of Foundations, South Approach	Aug/82	Sept/82	100	Foundation strengthening of South Approach fill.
C-1583	Test Fill, Burns Bog	June/82	--	25	A test fill being constructed to decide how to construct main thoroughfare through a deep bog.
C-1584	Hogfuel Supply	June/82	Feb/83	100	Supply of hogfuel for use in road construction throughout the project.
C-1585	River Road Connector, River Road to Nordel Exchange	June/81	--	60	Removed surcharge fill and completed to crushed gravel base. Next year, raise railway and pave.
C-1589	Swenson Sand Haul	June/82	Sept/82	100	Haul previously dredged sand onto neighbouring property to blend in with project.
C-1122	Construct Engineering Access Road Burns Bog Area	Nov/81	May/82	100	To access many areas, roads made solely of hogfuel were built.
C-1651	L-Line Construction, Sta. 165-169	Oct/82	Feb/83	100	Place sand surcharge over road.
C-1671	St. Mungo's Cannery Demolition	Nov/82	Dec/82	100	Demolish St. Mungo's Cannery in preparation for sand island construction.

GRADING CONTRACTS PROGRESS - 1982/83

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-0102	John Hart Highway, Summit Lake Bypass, Construction: Sta. 635+00 to Sta. 998+00	97	10.61	Aug/80	Sept/82	100	Reconstruction of Hart Highway.
C-0252	Reconstruction of Cheakamus Canyon Section of Garibaldi Highway	99	2.43	Feb/81	June/82	100	Large rock excavation. Realigns the old narrow Cheakamus Canyon. Involved river realignment.
C-0253	Yellowhead Highway, Reconstruction: Kasiks River-Backwater Creek, Sta. 1939+50 to Sta. 2220+00	16	8.56	Nov/80	Dec/82	100	Reconstruction of Yellowhead Highway along Skeena River. Large rock excavation.
C-0790	Summit Drive Extension, Stage 1, Kamloops	—	4.18	June/81	Sept/82	100	New four-lane paved urban arterial through Kamloops.
C-1066 -0002	Reconstruction: Westbank-Kelowna, Section 3, Okanagan Highway	97	3.40	Oct/81	Dec/82	100	Four-laning south of Kelowna. Completes four-lane sections south of Kelowna.
C-1121	Marine Way: Construction, Byrne Road-Queensborough Bridge	—	2.69	Apr/81	—	55	Continuation of four-laning of Marine Way. Completion to preliminary gravel. Involves hogfuel road construction. Several difficult utility relocations must be done.
C-1148 -0001	Colony Farm Overhead Approach Roads, Lougheed Highway Connector		1.00	May/82	Nov/82	100	Gravelling and paving of some Colony Farm Overhead Approach Road system.
C-1304 -0001	Fraser River Crossing, Annacis Channel Moveable Bridge, Vibroreplacement Compaction of Foundations, South Approach	—	—	Aug/82	Sept/82	100	Special foundation strengthening.

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-1312	Elk Valley Road, Sparwood-Cummings Creek	—	4.18	Oct/82	—	35	Reconstruction of Elk Valley Road
C-1562 -0001	Yellowhead Highway, Kamloops Weigh Scale to C.N.R. Station Road	5	3.10	Oct/82	Nov/82	100	Four-laning relocation north of Kamloops. Paving only.
C-1562 -0002	Crushed Granular Surfacing in Stockpile, Todd Hill Pit, Kamloops	—	—	Oct/82	Dec/82	100	Crush gravel for four-laning Highway 5.
C-2792	John Hart Highway, Nechako River Bridge-Chief Lake Road	97	10.26	Sept/80	Sept/82	100	Four-laning reconstruction north of Prince George.
C-2901	Island Highway, Lantzville-Craig's Crossing	19	14.14	Jan/80	July/82	100	Four-laning north of Nanaimo.
C-3997 -0003	Marine Way, Paving: Greenall Road-Byrne Road	—	2.86	Nov/82	—	50	Four-lane gravelling and paving.
C-4477	Reconstruction: Southern Trans-Provincial Highway, Nicolum Creek to West Boundary Manning Park	3	13.87	Jan/80	Sept/82	100	Four-lane reconstruction near Hope Slide. Realigns Hope Slide section. Completion of long, difficult job
C-4478	Construction: Coquihalla Highway, Boston Bar Creek Summit-Dry Gulch	—	4.5	June/80	Oct/82	100	Large rock and earthmoving job done well.
C-4483	Construction: Prince Rupert-Ridley Island	—	6.73	Sept/80	Sept/82	100	Rock and muskeg excavation project complete. Access from Highway 16 to Ridley Coal Port.

NORTHEAST COAL DEVELOPMENT ROAD - 1982/83

Project Number	Location and Description	Date Started	Date Completed	Start* (km)	Length (km)	Percent Complete	Remarks
C-4513	Junction Highway 97-Martin Creek	Aug/80	Aug/82	0	22.9	100	Complete.
C-0745	Martin Creek-Upper Martin Creek	May/82	—	22.9	13.9	65	Anticipated completion August 1983.
C-0746	Upper Martin Creek-Gwillim Lake	May/82	—	36.8	13.4	65	Anticipated completion September 1983.
C-0747	Gwillim Lake-Meikle Creek	May/82	—	50.2	4.8	80	Anticipated completion June 1983.
C-1138	Meikle Creek-Bullmoose	June/83	—	55.0	9.2	65	Anticipated completion August 1983.
C-0748	Bullmoose-Tumbler Ridge West	Sept/81	—	64.2	19.5	55	Anticipated completion July 1983.
C-0749	Bullmoose-Tumbler Ridge East	Oct/81	—	83.7	9.6	70	Anticipated completion October 1983.
					93.3		

* Distance from Junction of Highway 97 and Northeast Development Road

REVELSTOKE - MICA CONTRACTS (HIGHWAY 23) - 1982/83

Project Number	Date Started	Date Completed	Start* (km)	Length (km)	Percent Complete	Remarks
C-3936	Nov/79	Oct/82	7.67	6.8	100	Large rock excavation project. Active 1982.
C-3937	July/79	Aug/80	14.48	6.1	100	Complete.
C-3938	Apr/79	Aug/80	20.57	7.0	100	Complete.
C-3939A	Feb/79	Aug/80	28.60	5.2	100	Complete.
C-3939B	Feb/79	Aug/80	33.20	1.2	100	Large rock excavation project.
C-3940	Aug/79	Sept/80	35.10	4.0	100	Complete. Incorporated Tunnel for Holdich Creek.
C-3941	Oct/79	Nov/81	39.20	7.5	100	Complete
C-3942	May/79	July/81	47.30	11.5	100	Complete.
C-3943	Apr/80	May/82	60.30	7.4	100	Complete. Active 1982.
C-3958	Mar/80	May/82	68.53	8.2	100	Complete. Active 1982.
C-3959	Mar/79	July/80	91.70	3.8	100	Complete.
C-3960	June/80	Oct/82	107.20	9.1	100	Complete. Active 1982.
C-3961	Apr/79	June/82	118.30	6.9	100	Complete. Active 1982.
C-3962	Sept/80	Nov/82	125.20	6.1	100	Has large multiplate failure to repair. Complete otherwise. Active 1982.
				90.8		

* Distance from junction of Highway 23 and Highway 1.

REPORT OF THE DIRECTOR OF PAVING

D.F. Martin, P. Eng.

During the 1982/83 fiscal year, the Paving Branch administered work on 25 projects. Of these, six were called prior to the fiscal year, and 19 during the fiscal year. Work on 24 of these contracts was completed, but work on one will continue in 1983.

In addition, six contracts were tendered and awarded near the end of the fiscal year for work to be performed in the 1983/84 year. These contracts and their total lengths are listed. Tenders for 20 contracts were opened late in the fiscal year but were not yet awarded prior to March 31.

Some 321.94 km of road were surfaced with asphalt pavement under contract this year (364.77 km of two-lane equivalent). In addition to the work done under contract, Paving Branch operations crews paved 93.8 km of road, and applied 440.50 km of granular surface treatments.

While the Branch performed no curb and gutter work this year, some grinding and paving was done in the Nanaimo area.

Paving of the reconstructed sections of Highway 23 (Revelstoke-Mica) continued this year, and paving of this highway will continue in 1983/84 as construction is completed. Since the old alignment of this highway is to be abandoned due to reservoir flooding behind the Revelstoke Canyon Dam, currently under construction, the contractor exercised the contract option to reclaim and recycle the existing highway pavement. This work forms part of the Branch's continuing research program into the advantages of pavement recycling, particularly where old highway alignments are to be abandoned, and is an efficient utilization of materials and energy. While pavement recycling is certainly not a solution to all resurfacing needs, it has its definite merits in certain applications. The resulting paved surfaces will need to be monitored for some time to adequately evaluate the work and to confirm guidelines for its performance.

The first of four paving contracts for the Northeast Coal Access Road (S-1303) was tendered with provisions for alternative bids covering i) conventional asphalt paving, or ii) sulphur-extended asphalt paving. When the tenders were analyzed with respect to materials costs (supplied by the Ministry) the overall cost for paving with sulphur-extended asphalt was deemed most economical. Elemental sulphur, supplied hot in liquid form, replaces a significant portion of asphalt cement. While the use of sulphur results in a somewhat higher contract bid, due to increased equipment requirements by the contractor, the current market price of sulphur is approximately one-third that of asphalt cement. The resultant savings, therefore, are governed by mix quantity and price differential between alternatives, and can be substantial. The incorporation of sulphur tends to harden the asphalt to some degree, thus permitting the use of softer asphalt cements plentiful in northern B.C. crude oils. These asphalts were not previously used extensively due to the instability of the resulting mix.

MATERIALS USED UNDER CONTRACT 1982/83

Description	Unit	Quantity
Common Excavation	m^3	280
Select Granular Base	t	1,277
Crushed Granular Surfacing	t	244,791
Crushed Shoulder Aggregate	t	84,962
Crushed Aggregate in Stockpile	t	18,924
Asphalt Concrete Pavement	t	562,818
Asphalt Concrete Mix f.o.b. Plant	t	3,529
Asphalt Curb	m	10,217
Portland Cement Curb	m	271
Corrugated Metal Pipe Installed	m	374
Asphalt Cement	t	31,003
Cutback Asphalts	L	2,124,650
Emulsified Asphalt	L	25,471
Milling	m^2	152,051
Patch Mix in Stockpile	t	859
Install new 686/690 mm Barrier	m	6,644
Remove and Re-Install Existing Barrier	m	1,637

MATERIALS USED BY PAVING BRANCH OPERATION CREWS

Description	Unit	Quantity
Asphalt Pavement	t	105,920
Asphalt Patch Mix in Stockpile	t	2,317
Crushed Paving Aggregate	m^3	58,011
Crushed Surfacing Aggregate	m^3	40,140
Asphalt Cement	t	267
Cutback Asphalts	L	4,243,789
Emulsified Asphalt (RS-2-K)	L	543,427
High Float Emulsified Asphalt	L	5,000,000

PAVING CONTRACT SUMMARY

Project Number	Location	Total Length km	Length Completed This Fiscal Year		Remarks
			Actual Length	2-Lane Equivalent	
Contracts Tendered Prior to 1982/83 Fiscal Year					
S-0640	Highway 16: Hazelton to Mudflat Creek; High Level Road, Kispiox Valley Road, Village Streets	44.90	—	—	Complete
S-0647	Highway 4: Jct.-Ucluelet Tofino Highway to Sutton Pass	35.20	35.20	36.60	Complete
S-0652	Agassiz Curb and Gutter	5.67	0.55	1.10	Complete
S-1049	Fort St. John Miscellaneous Roads	46.70	34.70	34.70	Complete
S-1063	Highway 23: Mars Creek-Downie Creek	31.75	31.40	31.40	Complete
S-1120	Crushed Aggregate-Rose Prairie (crushing for Project S-1049)	—	—	—	Complete
Contracts Called During the 1982/83 Fiscal Year					
S-1069	Highway 1 & 97: Oregon Jack to Ashcroft Manor; Cache Creek to Loon Lake Road	26.50	30.10	35.20	Complete
S-1405	Highway 1: Sumas Canal to Chilliwack River Road	20.63	20.35	33.53	Complete
S-1454	Highway 26: Wingdam to Bowron Lake Rd.	42.00	42.00	42.00	Complete
S-1455	Highway 97: Swan Lake Jct. to Schwebb's Bridge	18.40	18.40	22.82	Complete
S-1456	Highway 1 & 19: Nanaimo Grinding and Paving	6.10	5.75	5.75	Complete
S-1459	Highway 5: Douglas Lake Road to Merritt District Boundary	16.10	18.00	17.50	Complete
S-1533	Highway 6: Hamilton Flats to Creighton Valley Road	9.30	12.30	12.50	Complete
S-1549	Highway 1: Thompson Canyon to Spences Bridge	23.29	8.00	9.06	Continuing
S-1567	Vancouver Island: West Coast Road Port Renfrew Area	4.00	5.50	5.50	Complete
S-1568	Highway 1: Kamloops Area - Jim Campbell Creek Bridge	6.90	6.90	1	
S-1569	Highway 1: Miscellaneous Sections in North Vancouver and Coquitlam area	6.85	6.85	13.70	Complete

PAVING CONTRACT SUMMARY - continued

Project Number	Location	Total Length km	Length Completed This Fiscal Year		Remarks
			Actual Length	2-Lane Equivalent	
Contracts Called During the 1982/83 Fiscal Year - continued					
S-1573	Highway 97: Barkerville Road to Plett Road Intermittent Grinding and Paving	6.25	6.46	6.46	Complete
S-1574	Highway 1 & 7: Intermittent Sections in Chilliwack, Hope and Agassiz areas	11.80	12.50	14.10	Complete
S-1588	Highway 20: Intermittent Sections from Highway 97 to Fraser River Bridge	4.50	6.10	7.55	Complete
S-1590	Highway 1: Misc. Paving, Craigellachie to Revelstoke	9.10	12.95	13.17	Complete
S-1598	Patullo Bridge Deck; paving test patch	—	—	—	Complete
S-1599	Highway 3: Intermittent patch paving, Keremeos West	4.50	4.50	4.50	Complete
S-1600	Highway 3: Intermittent Patch paving, Salmo-Creston Summit	2.00	2.00	2.00	Complete
S-1602	Hwy 1: Intermittent patch paving, Fuller Lake Road and Shawnigan Lake Road Area	1.43	1.43	1.43	Complete
TOTALS			321.94	364.77	
Projects Awarded in 1982/83 for Construction in the 1983/84 Fiscal Year					
S-1303	Northeast Development Road: Junction Highway 97 to Martin Creek	23.00			
S-1679	Nechako River Bridge Approaches	7.50			
S-1686	Highway 97: Intermittent Sections from Summerland to Peachland	16.96			
S-1687	Highway 1: Intermittent Sections between Lake of the Woods and Jackass Mountain	23.96			
S-1722	Yellow Highway 16 East: Upper Fraser Road to Bowron River Bridge	37.90			
S-1750	Highway 97 - Alaska Highway: North Kiskatinaw to Road 269	39.40			

PAVING AND SEALING WORK BY PAVING BRANCH OPERATIONS CREWS

SEAL COATING (S-0084)

Electoral District	Job Number	District	Location	km Road	km Shoulder
Kamloops	2102	Kamloops	Westside Road; Blackpines to McLean Landing	25.00	—
Kamloops	2105	Kamloops	Lac la Jeune Road: Highway 1 Jct. to District Boundary	22.50	—
Shuswap-Revelstoke	2202	Salmon Arm	Salmon Arm Area roads	30.95	—
Yale-Lillooet	2503	Merritt	Lac la Jeune Road: Meadow Creek Road to Logan Lake	47.60	—
Yale-Lillooet	2604	Lillooet	Highland Valley Road: Merritt District Boundary to km 85.5	11.30	—
Yale-Lillooet	2607	Lillooet	Highway 12B: Miscellaneous sections	32.60	—
Cariboo	2707	100 Mile House	Miscellaneous Roads 100 Mile House Area	16.6	—
Nelson-Creston	3404	New Denver	Highway 31A: Kaslo to Coffee Creek	23.60	—
Nelson-Creston	3405	New Denver	Highway 23: Nakusp area; Halfway River towards Galena Bay	17.60	—
Nelson-Creston	3406	New Denver	Highway 23: Silverton to Slocan City	33.50	—
Nelson-Creston	3903	Creston	Highway 3: Blazed Creek to km 65 west of Creston	38.60	—
Prince George	4105	Prince George	Highway 16: Prince George west to Bednesti	47.00	—
Prince George	4106	Prince George	Highway 97: Summit Lake to Angusmac #5 Bridge	27.0	—
Prince George	4107	Prince George	Highway 97: South of Prince George District Boundary to Sintich Road	47.75	—
Kamloops	4605	Kamloops	Highway 5: Avola to Messiter Summit	18.90	—
		FISCAL YEAR TOTAL		440.50	

PLANT MIXED PAVEMENT (S-0085)

Electoral District	Job Number	District	Location	km Road	km Shoulder
Yale-Lillooet	2502	Merritt	Highway 5: Hamilton Hill to Aspen Grove	17.9	—
Boundary-Similkameen	3309	Grand Forks	Highway 33: Rock Creek to Beaverdell Area; Greenwood patching	48.0	—
Prince George North	4103	Prince George	Highway 97: Angusmac Bridge #5 to km 114 north of Prince George	27.9	—
		FISCAL YEAR TOTAL		93.80	

REPORT OF LANDS SURVEYS OFFICER

F.A. Clapp

In the course of the fiscal year a total of 175 survey projects were carried out under the Legal Survey Vote, under the Construction Votes as well as work on behalf of the British Columbia Ferry Corporation.

The surveys established 360 kilometres of highway right of way. In addition surveys were carried out for establishing highway right of way in surplus lands prior to transfer to the Ministry of Lands, Parks and Housing; defining highway right of way prior to road closures; Statutory right of way for drainage easements; and the reposting of highway right of way.

Work for the British Columbia Ferry Corporation comprised Foreshore lot upgrading surveys at Departure Bay, Horseshoe Bay and Skidegate. In addition plans of subdivision were prepared for consolidating the Corporation's properties at Bear Cove, Departure Bay, Horseshoe Bay and Langdale Terminals.

During the year a total of 300 plans were handled by this office, of these 174 were submitted to the various land title offices for registration.

The search for and the restoration of original cadastral survey evidence continues to be the cause for most of the cost over runs on highway right of way surveys projects.

Expenditures for the year were—

Legal Survey Vote	$ 623,361.06
Construction Project Vote	$ 162,002.50
British Columbia Ferry Corporation	$ 12,509.20
TOTAL	$ 797,872.76

REPORT OF DIRECTOR OF MAINTENANCE SERVICES

The 1982/83 fiscal year expenditure for road and bridge maintenance was expected to be about $170,000,000. This was an 8.5% increase over last year.

Ministry gravel crushers produced 313,650 cubic metres of crushed aggregate supplemented by 14 contracts for the supply of 325,800 cubic metres of aggregate. The material was utilized in capital day labour and in maintenance programs in approximately equal proportions.

The following summarizes unusual or emergency situations which affected highways throughout the province in 1982:

Highway 99 north from Horsehoe Bay experienced a number of rock falls, two of which occured on December 3 due to heavy rain conditions. Deposits across the highway of about 1,000 cubic metres of rock occurred and resulted in road closures. Considerable blasting and scaling continues to combat this problem.

Extremely heavy rains in late June and early July resulted in numerous washouts, flooding, sloughing of banks, fill failures and other erosion. Total damages in the southern interior approached $1,000,000 including $110,000 in Vernon, $130,000 in Kelowna and $70,000 in 100 Mile House.

On September 4 a large mudslide travelled down Washout Creek, 20 km south of Golden, washing out a timber bridge and depositing 30,000 cubic metres of mud on Highway 95. Repair costs were $215,000.

A series of heavy rain storms between May and September caused many washouts in the northern parts of the Province. Of particular note was a tremendous rain storm which dropped 250 mm of rain over a 24-hour period July 14 in the Tumbler Ridge to Dawson Creek area. Damage to roads, bridges and culverts was extensive, exceeding $250,000 for repairs.

On July 22 a large slab of ice broke from the Cambria Ice Field near Stewart activating a major avalanche of ice snow and large boulders which blocked the Bear River and deposited material up to 10 metres deep and 400 metres long on Highway 37A. The fast response of local crews facilitated the re-opening of the road in less than six hours.

Only a small number of the many emergencies experienced in 1982 have been mentioned here. The prompt and capable actions of road crews in all Districts kept road closures to a minimum and averted the loss of highway sections in many locations.

SNOW AVALANCHE PROGRAM

The snow avalanche management program continues throughout the Province. Avalanche activity affecting highways was about average in the Province.

Training in avalanche awareness and safety continues to be a key section of the avalanche program. Courses were held in cooperation with the National Research Council, Parks Canada and B.C.I.T., as well as several in-service courses. Over 350 employees received avalanche related training during 1982.

Search and rescue plans and equipment have been upgraded and completed for avalanche areas throughout the Province.

The weather reporting network is continuing to operate successfully and, as a result, more accurate avalanche hazard forecasts are being made.

The avalanche hazard evaluation of existing and proposed tramway and ski areas is continuing to increase as an activity in the avalanche program.

MAINTENANCE MANAGEMENT PROGRAM

The 1982/83 Provincial Highway Maintenance Performance Budget was reduced 3.25% by the cutting of levels of service to meet the funding level provided. This included significant reductions in ditching, brushing, and rest area maintenance, and some reductions in dust control, grading and shoulder maintenance.

The maintenance program was reduced a further three percent in August by the cutting back and re-arrangement of planned winter activities.

The Minor Betterment program was allocated $11,700,000 from Capital funds this year in order to undertake a variety of minor improvements to the highway and side road network in each District.

Continued emphasis in 1982 was placed on establishing appropriate maintenance objectives in the major activities for each crew and working to achieve these goals using various planning and scheduling techniques. The benefits of this approach were particularly noteworthy on Vancouver Island and a major training program has now been launched Province-wide to promote the process of systematic annual and weekly scheduling.

The evaluation of various products and materials throughout the year indicated several promising new dust control palliatives. Considerable effort was also made in cooperation with the Geotechnical and Materials Branch establishing a new salt specification that would provide maximum effectiveness for British Columbia conditions.

The new Bridge Inventory and Inspection System was completed and launched in 1982. The system is designed for fast updating of all bridge information and is able to provide a number of reports on bridge condition status, and other related statistics for appropriate managers and bridge personnel.

The following quantities of stockpiles materials were produced and used by District crews during the period from the beginning of April through December.

Production (m^3)

	Ministry	Contract	Total	Usage	Unit Price
16 mm crush	65,888	182,022	247,910	285,729 m^3	5.20/m^3
19 mm crush	247,766	143,860	391,626	940,018 m^3	4.60/m^3
Asphalt mix	13,531	958	14,489	31,978 m^3	70.00/m^3
690 mm Guardrail pieces	3,842	4,047	7,889	9,786	100.00/piece

Revenue generated to the end of March through the sale of these materials was $9,581,310, while production costs totalled $4,539,913. Usage exceeded production as existing stockpiles were drawn down, however about half of this usage occurred in March, 1983.

ROADSIDE DEVELOPMENT PROGRAM

The 1982 roadside development program reflected general Government spending restraints and was limited to activity in staple programs.

Considerable focus was placed on hydroseeding for erosion prevention and weed control work. Reduced seeding requirements for new construction allowed many existing slopes to be refertilized and the total accomplishment was nearly triple last year's production. The hydroseeding program totalled 4,986 hectares, of which 3,002 hectares were seeded, 183 hectares were mulched and 1,801 hectares were refertilized.

All Regions were involved with chemical weed control with the exception of Region 6 which controlled minor noxious weed infestations by mechanical means. Herbicides were used to sterilize 1,712 kilometres of road shoulder and treat 1,925 hectares of noxious weeds.

Major landscape work, resulting primarily from earlier commitments, was carried out in the lower mainland and in the Invermere area. The landscaping of the U.B.C. Endowment Lands, Marine Drive to 16th Avenue project, was completed for public opening July 23, and the Athalmer overhead in Invermere was landscaped to the satisfaction of residents in that community. Landscaping was also completed at the large "Cole Road" Safety Rest Area on Highway 1, east of Abbotsford.

Rest area development, once again, centred around upgrading of existing facilities and work was done at approximately 30 sites throughout the Province. The major items undertaken included a washroom building for Mount Terry Fox Rest Area, renewed facilities at Hope Slide and improved access and egress at two sites on Highway 1, west of Golden. Other improvements ranged from general refurbishing at many rest areas to provision of water and power at several sites. Two new sites were put into operation on the Queen Charlotte Islands.

The Ministry continued to carry out contract maintenance of major landscape installations on the lower mainland, Vancouver Island and several localities in the interior of the Province. In 1982 all lower mainland landscape maintenance contracts were tendered for a two year period and the annual per hectare costs dropped below last year's figures.

CENTRELINE AND PAVEMENT MARKING

The 1982 season for pavement marking saw the completion of final markings on several construction projects such as Cheakamus Canyon, Hope Slide, Nanoose, Kelowna, Westbank, Prince George-Chief Lake, Summit Lake and Ridley Coal Port.

There was also a heavy concentration of surface treatment that kept the marking crews busy in the Prince George area.

Statistics for Work Completed to the end of March, 1983

Painting	
Centreline, Edge and Lane Lines Painted	17,082 km
Pre-lining	1,514 km
Curb Painting	9,030 lm
Crosswalks Painted	54
Arrows Painted	835
Stop Lines Painted	259
Parking Stalls and Digits Painted	46
R.C.M.P. Surveillance Lines Painted	3
Traffic Islands Painted	723
Traffic Gores Painted	92
Thermoplastic	
Centreline, Edge and Lane Lines in Plastic	173 km
Plastic Laid	10,006 m^2
Arrows	1,157
Crosswalks	431
Stop Lines	289
R.C.M.P. Surveillance Lines	31
Advance Markings	25
Catseyes and Reflective Road Markings	
Catseye Castings	48
Catseye Rubber Inserts	2,228
Guardrail Delineators	34
Reflective Road Markings	24,658
Material Usage	
Yellow Centreline Paint	602,168 litres
White Centreline Paint	225,426 litres
Glass Bead	468,479 kg
Yellow Thermoplastic	47,714 kg
White Thermoplastic	153,125 kg
Yellow Plastix	28 m^2
White Plastix	50 m^2

Work Activities Performed by Ministry Maintenance Crews, 1982/83

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
100	Permanent Hand Patch	83,125.9	9,507.3 cu metres	249.15	2,368,762
101	Machine Patch	56,011.1	50,145.8 cu metres	102.56	5,143,069
102	Surface Treatment	3,268.2	17,554.7 1000s sq metres	13.71	240,835
103	Crack Sealing	11,518.4	1,830.5 lane km	144.42	264,365
104	Pavement Burning	4.5	.1 lane km	780.00	16,278
105	Temporary Hand Patch	81,751.6	8,191.5 cu metres	260.25	2,131,887
106	Skin Hand Patch	9,954.2	818.1 cu metres	299.96	245,404
111	Grading	150,438.3	694,192.0 pass km	12.69	8,813,221
112	Dust/Calcium	4,364.2	3,189.0 km	573.77	1,829,753
113	Regravel Roads	97,798.5	615,838.0 cu metres	8.47	5,216,736
114	Dust/Lignosulphonate	2,647.8	1,234.7 km	528.42	652,449
115	Dust/Oils	1,477.4	967.8 km	436.86	422,801
120	Regravel Shoulders	54,353.3	214,193.1 cu metres	10.83	2,321,183
121	Grade Shoulders	13,611.5	43,504.1 pass km	14.47	629,809
122	Sundry Shoulder Maint.	6,174.9	21,301.1 cu metres	9.28	197,831
123	Curb Maintenance	3,330.9	21,218.9 metres	3.75	79,715
130	Road Base Repair	49,929.0	210,261.4 cu metres	10.18	2,142,506
131	Rail Crossings	2,343.3	2,343.3 man-hours	64.56	151,300
139	Other Surface	7,658.1	7,658.1 man-hours	52.19	399,711
200	Ditch Clean	132,336.9	1,369,702.6 metres	4.02	5,516,877
201	Grader Ditch	3,783.0	4,108.7 km	52.62	216,240
202	Culvert Maintenance	36,386.0	34,993.2 culverts	26.30	920,474
203	Catch Basins	6,152.9	13,052.0 catch basins	11.79	153,990
204	Culvert Replace	16,954.3	2,497.6 culverts	388.02	969,140
209	Other Drainage	19,474.9	19,491.4 man-hours	27.92	544,343
220	Area Mowing	9,108.1	5,089.4 hectares	65.16	331,659
221	Hand Brushing	81,346.0	81,469.0 man-hours	19.55	1,593,440
222	Machine Brushing	13,087.7	20,126.8 pass km	74.75	1,504,606
223	Swath Mowing	20,229.9	57,799.9 pass km	14.23	822,731
230	Gardening	27,049.7	27,055.7 man-hours	23.45	634,717
231	Shoulder Sterile	2,480.5	1,728.6 shoulder km	42.96	74,264
232	R/W Seeding	7,181.7	2,439.9 hectares	335.67	819,020
233	Refertilizing	2,259.7	1,451.3 hectares	137.32	199,301
234	Hydroseeder Mulching	1,891.3	196.1 hectares	1,335.53	261,898
235	Weed Control	15,756.8	4,563.4 hectares	94.60	431,728
239	Other Vegetation	3,972.7	3,972.7 man-hours	27.39	108,831
250	Roadside Litter	35,498.6	103,721.1 shoulder km	6.84	709,457
251	Barrels & Areas	41,128.6	141,526.7 barrels	7.36	1,042,143
252	Appliance Maint.	12,449.5	58,199.8 applncs.	7.57	440,798
253	Rock & Debris	31,495.9	31,497.9 man-hours	25.54	804,604
254	Road Surface Clean	14,260.8	34,947.3 pass km	17.23	602,249
255	Rock Scaling	4,541.7	4,549.2 man-hours	42.68	194,174
256	Hand Surface Clean	8,999.9	9,026.9 man-hours	18.60	167,958
257	Street Surface Clean	14,312.8	38,547.8 pass km	14.32	552,032

Work Activities Performed by Ministry Maintenance Crews, 1982/83—Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
259	Other Debris	8,212.5	8,293.5 man-hours	26.01	215,720
300	Truck Plow	102,493.9	2,779,733.8 plow km	1.26	3,524,324
301	Sand	189,061.3	457,748.2 cu metres	25.19	11,533,786
302	Chemical	22,431.6	30,956.3 cu metres	124.91	3,866,989
303	Patrol	163,007.7	4,090,769.1 km	1.05	4,306,163
304	Grader Plow	48,731.2	412,454.8 plow km	6.73	2,776,649
305	Ice Blading	18,243.5	151,224.1 plow km	6.00	908,564
306	Misc. Snow Clearing	26,842.6	26,889.6 man-hours	42.79	1,150,772
307	Drainage Thawing	23,786.3	23,780.3 man-hours	26.04	619,421
308	Stockpile Salt	3,499.0	66,310.7 tonnes	84.58	5,608,808
309	Snowfences	2,068.8	14,372.4 metres	3.78	54,439
310	Plowboards	1,867.8	3,322.7 p boards	27.55	91,554
311	Grader Winging	22,368.7	155,670.9 plow km	8.18	1,274,143
312	Snow Blowing	1,911.0	1,911.0 man-hours	38.42	73,422
313	Winter Standby	45,409.7	45,409.7 man-hours	12.22	555,104
319	Other Winter	33,028.9	33,047.9 man-hours	25.32	836,826
400	Signs	119,900.0	196,447.9 posts	17.76	3,490,044
404	Posts (Yard)	7,660.2	21,910.0 posts	5.90	129,354
405	Sign Fabrication	3,831.9	3,860.9 man-hours	19.53	75,423
430	Pavement Marking	6,933.5	51,004.4 sq metres	4.28	218,320
431	Road Stud Install	237.6	2,490.1 studs	49.87	124,205
432	Line Paint	33,827.8	17,239.7 pass km	169.50	2,922,228
433	Reflector Inst/Replace	1,838.0	32,996.0 no rfltrs	3.04	100,584
434	Curb Painting	1,103.7	67,678.7 metres	.54	37,013
435	Mark Eradication	1,078.7	5,013.5 sq metres	3.93	19,725
436	Prelining	7,057.4	1,542.6 pass km	70.79	109,209
437	Plastic Line (Auto)	1,760.8	173.9 pass km	1,096.88	190,749
438	Thermoplastic (Other)	2,276.5	10,006.0 sq metres	13.15	131,620
439	Other Sign & Mark	24,097.8	24,094.8 man-hours	23.12	557,137
450	Signal Maintenance	10,774.6	1,632.0 intersec	172.00	280,715
451	Signal Repair	11,721.8	2,372.0 intersec	161.77	383,723
452	Electrical Patrol	2,952.6	50,281.1 km	1.39	70,078
453	Multi Message Signs	870.1	870.1 no. signs	29.46	25,635
459	Other	877.0	877.0 man-hours	28.54	25,034
460	Lighting Maintenance	6,791.8	9,938.1 no poles	22.38	222,442
461	Lighting Repairs	18,611.8	7,059.5 no poles	119.62	844,459
465	Other Lighting	1,192.7	1,192.7 man-hours	61.62	73,495
466	Generator Maintenance	2,690.5	278.0 generators	260.90	72,532
467	Generator Repair	2,359.9	693.4 generators	89.18	61,840
469	Other Generators	94.0	94.0 man-hours	30.88	2,903
470	Service Equipment Maint.	1,593.9	636.0 units	65.92	41,926
471	Service Equipment Repair	1,487.2	547.0 units	65.82	36,009
475	Control Device Repair	4,944.9	755.0 devices	133.60	100,874
476	Control Device Mfg.	878.2	840.1 man-hours	27.00	22,689

Work Activities Performed by Ministry Maintenance Crews, 1982/83—Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
479	Other	584.4	584.4 man-hours	31.34	18,319
500	Bridge Cleaning	23,087.9	23,095.9 man-hours	20.10	464,442
501	Bridge Rail Repair	19,347.5	28,118.1 metres	19.75	555,610
502	Bridge Steel Paint	12,662.5	7,539.1 litres	58.38	440,199
503	Sand Blasting	8,361.3	8,421.4 man-hours	30.28	255,084
504	Water Blasting	374.2	374.2 man-hours	57.65	21,576
505	Concrete Deck Repair	8,258.1	8,258.1 man-hours	32.84	271,246
506	Timber Deck Repair	42,224.9	42,224.9 man-hours	38.62	1,630,887
507	Bridge Inspection	7,871.5	7,871.5 man-hours	23.83	187,650
508	Bailey Stk. Handling	2,520.1	3,137.0 no. panels	17.69	55,511
509	Bailey Deck Repair	4,352.3	4,352.3 man-hours	35.43	154,243
510	Tunnel Maintenance	6,211.1	6,211.1 man-hours	25.07	155,768
511	Perm. Structure Repair	14,372.9	14,372.9 man-hours	50.81	730,316
512	Timber Structure Repair	28,461.2	28,461.2 man-hours	38.46	1,094,888
513	Deck Linseed Oiling	3,332.5	124,654.6 sq metres	.60	75,411
514	Stream Cln/Chan. Repair	10,728.3	12,792.3 man-hours	29.24	315,659
515	Building Maintenance	21,382.3	21,382.3 man-hours	24.68	527,917
516	Misc. Carpentry	27,822.2	27,829.2 man-hours	20.80	578,889
517	Concrete Overlay	10,009.0	21,228.8 sq metres	24.13	512,425
518	Scarifying	1,391.0	20,867.5 sq metres	6.47	135,147
519	Hand Painting	2,403.8	2,411.3 man-hours	19.19	46,290
520	Conc. Guardrail Maint.	17,879.3	57,964.7 no. pieces	8.22	476,639
521	Fence Repair	6,152.6	139,002.9 metres	1.59	221,158
522	Cattleguard Repair	3,399.6	408.0 cattleguards	298.43	121,763
523	Steel & Timber Guardrail	2,584.7	10,299.0 metres	6.97	71,820
524	Special Fencing	3,256.3	3,256.3 man-hours	19.24	62,683
529	Other Str. Maint.	14,763.8	14,763.8 man-hours	40.64	600,077
560	Screen & Stockpile	44,111.1	511,816.4 cu metres	10.66	5,458,917
561	Pit Prep. & Cleanup	17,494.4	17,640.4 man-hours	75.08	1,324,468
562	Crush (38, 76 mm)	2,320.0	99,226.0 tonnes	1.17	116,909
563	Crush (19 mm)	12,386.7	459,693.7 tonnes	2.09	964,324
564	Crush (13, 16 mm)	6,500.4	282,740.9 tonnes	1.53	433,163
565	Asphalt Mix	3,560.0	14,805.2 cu metres	54.38	805,199
566	Quarrying	123.2	3,895.0 cu metres	5.11	19,915
567	Grade Premix	511.0	1,657.5 cu metres	37.61	62,344
568	Gravel Stockpiling	5,909.2	76,830.0 cu metres	10.55	810,671
569	Other Materials	6,589.6	6,614.1 man-hours	76.56	506,437
570	Ferry Operation	691.6	691.6 man-hours	129.69	89,696
571	Ferry Maintenance	2,802.9	2,802.9 man-hours	38.71	108 526
572	Dock Maintenance	41,743.6	41,743.6 man-hours	93.07	3,885,093
579	Other Ferry & Dock	8,630.6	8,630.6 man-hours	58.07	501,200
580	Equipment Service	116,696.5	41,583.9 no. units	41.01	1,705,551
581	Equipment Repair	28,874.4	5,764.9 no. units	100.17	577,506
582	Mechanical Travel	20,884.8	5,635.8 no. units	59.74	336,695

Work Activities Performed by Ministry Maintenance Crews, 1982/83—Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
583	Fueling	10,150.5	6,473.6 no. units	35.57	230,313
588	Equipment Rental (Branch)	.0	11,696.6 no. units	604.88	7,075,047
600	Supervision	545,711.2	545,801.0 man-hours	16.91	9,233,969
601	Safety Programs/Train.	50,067.6	50,067.6 man-hours	16.53	827,780
602	Vacation	811,011.5	811,029.4 man-hours	12.50	10,141,959
603	Sick Leave	186,045.7	186,045.7 man-hours	12.51	2,327,919
604	W.C.B.	21,919.6	21,876.1 man-hours	12.28	268,789
605	Special Leave	33,173.1	33,173.1 man-hours	12.92	428,730
606	Stand-by	17,484.4	17,499.4 man-hours	13.58	237,811
609	Equipment Hauling	48,646.6	48,736.1 man-hours	49.80	2,427,281
610	Light Duties	2,391.9	2,391.9 man-hours	12.34	29,530
611	Travel (4 hr. +)	22,341.8	22,770.3 man-hours	81.18	1,848,529
612	Traffic Patrol	109,746.3	109,938.8 man-hours	16.62	1,827,775
613	Yard Maintenance	113,812.3	113,812.3 man-hours	18.21	2,073,658
614	Stock Control	130,597.8	133,650.8 man-hours	21.11	2,822,636
615	Camp Operation	22,751.8	39,729.2 meals	17.51	695,914
616	Equipment Training	38,376.6	38,383.6 man-hours	17.68	678,816
617	Other Training	15,749.2	15,749.2 man-hours	19.49	307,030
618	Tending	65,257.5	65,298.4 man-hours	18.28	1,193,704
619	Other Overhead	17,730.0	17,730.0 man-hours	84.83	1,504,038
651	Inquiries	14,032.1	14,032.1 man-hours	15.11	212,142
653	Draft & Calcu.	105,636.8	105,636.8 man-hours	13.84	1,462,536
654	Maint. Man. Office	67,683.4	67,353.4 man-hours	14.15	953,236
655	Maint. Man. Field	22,233.7	22,233.7 man-hours	17.20	382,592
656	Permits & Land Ref.	29,278.3	9,537.1 permits	44.28	422,331
658	Sub-divisions	63,534.4	5,585.4 sd & luc	165.01	921,674
660	Survey Projects	60,036.9	59,604.6 man-hours	15.54	926,358
661	Avalanche Maint.	12,935.0	12,935.0 man-hours	24.29	314,259
666	District Admin.	337,775.4	337,797.9 man-hours	16.46	5,561,478
668	Surveying Other	97,417.8	98,560.3 man-hours	14.77	1,456,327
670	Secretarial	199,637.6	199,666.4 man-hours	13.30	2,657,422
671	General Accounting	41,739.8	214,763.2 1000's $mthly	2.33	501,040
672	Payroll & Personnel	90,475.7	421,584.0 100's mhs	2.64	1,113,705
673	Accounts Payable	71,769.6	86,737.4 no. vouchers	10.24	888,294
674	Perm. & S.D. Typing	17,988.1	17,988.1 man-hours	12.01	217,221
675	Termin/Data Entry	18,531.3	1,116,458.9 no. cards pro	.21	234,611
679	Other	16,758.6	16,766.6 man-hours	19.14	321,057
700	Clearing & Grubbing	20,985.9	505.3 hectares	4,242.02	2,148,550
701	Rock Blasting	5,725.9	107,121.7 cu metres	6.72	720,652
702	Road Bed Construction	36,712.5	3,961.5 km	1,544.59	6.118,931
703	Road Widening	32,172.3	2,860.1 km	973.94	2,785,568
704	Shoulder Widening	14,565.2	436.7 km	2,215.63	967,566
705	Ditch Construction	14,772.4	133,608.6 metres	6.73	899,811
706	Culvert Installation	17,680.2	16,375.1 metres	89.34	1,463,009

Work Activities Performed by Ministry Maintenance Crews, 1982/83—Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
707	Multi-Plate	13,156.9	5,387.4 metres	136.28	734,231
708	Machine Paving	16,894.1	77,852.4 tonnes	63.43	4,938,487
709	Road/Pulvi-Mix	2,379.5	27.7 km	8,467.36	234,546
710	Guardrail Installation	20,840.7	16,288.7 no. pieces	109.08	1,776,860
711	Seal Coating	11,200.2	249.8 km	3,078.96	769,125
712	R/W Landscape	3,387.6	85.3 hectares	2,203.65	187,972
713	R/W Fencing	21,465.2	308,090.6 metres	5.06	1,559,441
714	Rest Area Develop.	6,700.9	6,700.9 man-hours	55.14	369,546
715	Retaining Wall	1,263.0	1,233.6 sq metres	41.94	51,749
716	Rip Rap	4,203.3	47,621.5 cu metres	10.52	501,276
717	Curb & Gutter	1,177.3	1,787.8 metres	54.65	97,719
718	Manhole Installation	967.2	61.0 number	554.19	33,806
719	Cattleguards	936.7	76.5 number	1,135.15	86,839
720	Chain Link Fence	921.3	1,836.0 metres	34.35	63,084
721	Yard Betterments	5,849.9	5,849.9 man-hours	38.91	227,678
722	Building Construction	10,408.2	10,408.2 man-hours	78.99	822,232
723	Dock Construction	6,240.0	6,240.0 man-hours	269.41	1,681,127
724	Bridge Construction	33,969.5	33,969.5 man-hours	75.96	2,580,589
725	Rest Area Application	692.5	108.7 number	184.18	20,021
726	Electrical Construction	33,752.9	33,752.9 man-hours	37.96	1,281,261
727	Gravelling	69,304.8	1,364,705.7 cu metres	7.61	10,391,529
728	Asphalt Curb	1,672.1	7,841.6 metres	8.36	65,584
729	Traffic Islands	1,832.1	3,076.0 sq metres	20.32	62,511
730	Shoulder Paving	5,226.4	10,431.5 tonnes	51.37	535,875
731	Shoulder Stabilization	1,414.7	13.7 shoulder km	4,087.95	56,005
732	Shoulder Surface Treat.	1,166.4	72.7 shoulder km	1,472.13	107,024
733	Rock Drilling	5,673.9	123,878.3 metres	9.09	1,126,073
734	Slope Surface	4,073.3	6,829.7 sq metres	51.67	352,927
735	Gravel Treatment	1,051.0	33.5 km	2,785.97	93,330
737	69 cm G/R Fabrication	6,022.9	4,390.4 no. pieces	75.72	332,481
738	Road Stabilization	408.3	131.2 km	791.61	103,860
740	Bridge Deck Construction	10,893.6	10,893.6 man-hours	69.86	761,075
741	Bailey Bridge Const.	12,538.3	12,538.3 man-hours	46.96	588,801
799	Other Projects	33,513.1	33,711.1 man-hours	75.73	2,553,236
810	Benkleman Beam	1,439.9	265.0 number	91.80	24,328
900	Flood Control	68,023.0	68,041.0 man-hours	41.18	2,802,295
901	Slide Removal	33,252.3	33,263.8 man-hours	39.25	1,305,769
902	Snow Slides	2,167.2	2,167.2 man-hours	41.56	90,070
903	Winter Repair	9,327.5	9,327.5 man-hours	34.35	320,487
904	Island Maintenance	7,623.2	7,623.2 man-hours	24.43	186,286
909	Other E.O.M.	15,346.2	15,346.2 man-hours	548.12	8,411,579
996	Write-off (Comp. Only)	.0	200,434.8 no. $	1.00	200,447
998	Stock Transfer	.0	97.0 no. $	24,090.53	2,336,782
999	District Overhead	14.5	227,958.7 no. $	17.27	3,937,609

Road Feature Inventory
Summer Classifications–District Totals of All Classes

Feature	Measure	Provincial Total	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6
SURFACE TYPE	Lane km							
Hot Mix		27,927.2	4,311.6	5,659.1	4,241.3	6,727.4	2,329.3	4,658.5
Cold Mix		9,948.9	597.5	3,951.5	2,810.5	347.7	174.5	2,067.2
Concrete		49	46.3		1.8			.9
Treated		1,097.4		129.6	577.5	44.2	185.7	160.4
Gravel		42,073.1	999.5	10,362.3	4,103.2	18,522.8	5,149.9	2,935.4
Dirt		6,148.7	22.3	1,823.3	748.6	3,201.5	292.7	60.3
Other		1,327.9	174	240.4	574.7	294.3	41.1	3.4
TOTAL		88,572.2	6,151.2	22,166.2	13,057.6	29,137.9	8,173.2	9,886.1
TOTAL	Road km	44,900.5	2,722.3	11,518.6	6,994.7	14,689.5	4,157.2	4,818.2
PROFILE	Lane km							
4-Lane Dvd.		1,170.6	942.5	65.5		15.5		147.1
4-Lane Undvd.		1,791.9	599.3	416.2	35.2	251	40.4	449.8
2-Lane		81,404.9	4,320.9	20,248.9	11,833.7	28,048.6	7,880.9	9,071.9
1-Lane		2,950.9	108.1	1,228.7	645.6	565.1	203.3	200.1
Other		1,253.9	180.4	206.9	543.1	257.7	48.6	17.2
TOTAL		88,572.2	6,151.2	22,166.2	13,057.6	29,137.9	8,173.2	9,886.1
SHOULDERS	km							
-1 m Paved		4,006.9	753.4	338.4	602.8	956.1	659.3	696.9
-1 m Treated		670.2	17.5	23.3	47.8	35.6	545.5	.5
-1 m Gravel		15,218.9	1,410.5	4,007.8	3,714.5	1,541.1	716.1	3,828.9
+1 m Paved		4,945.2	1,126	721.2	1,176.1	1,173.4	172.5	576
+1 m Treated		3,780.7	343.5	1,350	603.8	1,052.6	362.9	67.9
+1 m Gravel		13,100.2	1,170.1	3,738.8	2,566.2	2,907.2	827.2	1,890.7
DITCHES	km	48,992.5	2,512.8	9,122.9	5,528.2	20,038	5,844.4	5,946.2
CULVERTS	Each							
Entrance		66,268	6,911	10,012	4,969	19,210	3,009.0	22,157
Road Way		85,919	6,247	15,722	13,767	24,158	9,320.0	16,705
DUST SITES	Each	19,026	1,324	5,632	2,021	4,326	3,027	2,696
SIGNS	Each							
Structure		1,693	741	423	71	267	36	155
Post		93,070	20,015	19,661	14,488	16,695	6,509	15,702
GUARDRAIL	m							
Steel & Wood		72,197	11,711	30,234	6,142	7,050	12,310	4,750
No Post		833,054	284,956	121,926	209,119	62,010	41,941	112,302
REST AREAS	Each							
Lay By		940	130	204	329	162	100	15
Rest Stop		244	11	36	63	71	31	32
LITTER BARREL	Each	2,781	284	629	555	792	317	204
SPECIAL LANES	km	1,318.5	269.3	287	224.8	316.3	74.2	146.9
DELINEATORS	Each	37,064	12,187	6,084	5,200	4,125	3,681	5,787
MOWING								
Swath	km	51,135.8	3,521.7	10,975.6	7,957.9	16,230.4	4,116.2	8,334.0
Area	ha	912	647	25	16	152		72
RAILROAD X	Each	787	91	189	173	179	45	110
CATTLE GUARD	Each	1,637	8	895	261	409	61	3
TUNNELS AND SNOW SHEDS	km	60	20	13	14	3		10
CATCH BASINS	Each	9,637	4,115	1,237	984	1,721	167	1,413
CURB & GUTTER	m	1,054,239	265,765	236,303	149,597	184,860	44,638	173,076
MANHOLES	Each	1,709	788	331	53	291	40	206

REPORT OF THE DIRECTOR OF EQUIPMENT SERVICES

E.A. Lund, P. Eng.

EQUIPMENT SECTION

The Ministry equipment fleet was maintained to the usual high level of availability but as the year progressed there were additional maintenance problems as government restraints allowed few replacements in light trucks and automobiles and a reduction in replacements of heavy trucks and equipment. In general the fleet was used less than in previous years due to reduced work programs and the light winter experienced throughout the province.

Approximately $13 million of equipment rental funds were unspent on fleet replacement and used to enhance the road maintenance account. The grader fleet was reevaluated to plan longer life time usage, and as a result, only 14 new replacement graders were purchased instead of the 27 that were originally planned. The heavy truck fleet was kept in good condition with the purchase of 36 heavy trucks and the 1978 decision to use diesel engines rather than gasoline engines with resulting longer lifetime usage expectations.

The Ministry reduced the amount of crusher and mixing plant work that it would do itself and as a result the Branch declared two crushers and two asphalt-mix plants to be surplus by year end.

The equipment management system continues to provide useful data for economical garage and branch management. The preventive maintenance part of the system is credited with increasing availability, decreasing unexpected breakdowns and reducing repair costs. Most of the operators and managers fully support the program as the results are very evident to them.

During the year, the Branch used 1,122,353 manhours of which 59% were productive mechanic hours while the balance were supervision, support (stockkeeping) or overhead hours such as holidays and sick leave. The provincial average shop rate was $28.63 per mechanic hour.

Fuel consumption was:

Gasoline	15,281,000 litres
Diesel	13,866,000 litres
Oil	667,000 litres
Propane	118,135 litres

There were 23 requests for approval to hire transportation units and 388 requests for approval to hire construction equipment at other than standard rates.

The Branch in cooperation with the Purchasing Commission held seven public auctions of 373 pieces of used and surplus equipment in five locations throughtout the province.

The Langford fabrication shop manufactured 25 Ministry tailgate sanders, custom fitted 13 tandem dump trucks with underbody snowplows, hydraulics, and front mounts for snowplows. In addition, 160 frame reinforcing kits were fabricated for 4-ton dump trucks. The shop converted two single axle tractor trucks to heavy duty snowplow units and fitted them with twin chain body sanders. Development work was completed on the Ministry designed twin-chain body sander so that future requirements can be purchased by public tender.

The electronic sander control unit was successfully tested and the final model has been accepted for fleet wide use. In future all new replacement dump trucks will be equipped with this system.

In a continuing program of reduced energy use and conservation planning the Ministry converted six automobiles to run on gasoline or compressed natural gas (CNG) in the Kamloops area. The conversion program was a success and reduced fuel costs are being realized.

An inventory, as of March 31, 1983, of active Ministry equipment by classification follows:

HIGHWAYS DIVISION
INVENTORY OF MINISTRY OF TRANSPORTATION & HIGHWAYS
EQUIPMENT FLEET AS OF MARCH 31, 1983

	Class	Description	Active Units (Incl. B.C. Ferries)
A.	1100	Cars	291
B.	1200	Plows	1,881
C.	15XX	Compressors	110
D.	1611-1615	Fork Lifts	80
	1621-1625	Cranes	6
	1630	Bridge Inspection Units	1
	2100	Excavators	36
E.	18XX	Light Plants	70

HIGHWAYS DIVISION
INVENTORY OF MINISTRY OF TRANSPORTATION & HIGHWAYS EQUIPMENT FLEET AS OF MARCH 31, 1983–*Continued*

	Class	Description	Active Units (Incl. B.C. Ferries)
F.	001X	Truck Cranes	192
	0020-0021	Personnel Lifts	43
	0030	Wreckers	10
	0033	Electrical Signs	119
	0070	Garbage Packer	46
G.	2010	Self Propelled Brooms (Pickup)	25
	2020	Towed Brooms	23
	2015	Self Propelled Brooms (Non-pickup)	25
H.	94XX	Transportation Light Trucks	1743
J.	25XX	Asphalt and Paving Equipment	104
	0050	Pavement Burners	3
	0060	Distributor	37
K.	28XX	Crushing and Screening Equipment	78
L.	30XX	Graders	318
	3100	Towed Graders	7
M.	3510	Sanders	1110
N.	40XX	Rubber Tired Tractors	207
O.	0001	Hydroseeder	5
	0002	Centreline Marker	12
	0003	Tunnel Washer	1
	3550	Snow Blower (quick slip on)	32
	0040	Water Tank	152
	0080	Auger Drill	20
	0081	Diamond Drill	6
	5600	Self-Propelled Horizontal Drill	1
	5700	All-Terrain Vehicle	2
	5800	Air Track Drill	2
	6001	Skidoo	2
	6002	Snowmobile	9
	6003	Motorcycle	4
	6025	Road Planer	2
	6090	Misc. Small "O" Equipment	135
	6091	Small/Medium "O" Equipment	3
	6092	Medium "O" Equipment	31
	6093	Medium/Large "O" Equipment	5
	6094	Large "O" Equipment	19
P.	46XX	Roller	116
	4700	Hand Tampers	188
Q.	50XX	Crawler Tractors	55
R.	44XX	Loaders and Backhoes	248
S.	7000-9320	Heavy Trucks	1614
T.	6500 & 6501	Lowbed Highboy Trailers	32
	6502	Tilt and Flatdeck Trailers	42
	6503	Utility Trailers	126
	6510-6512	Unheated Storage Trailers	67
	6520-6522	Kitchen, Washcar Trailers	39
	6523-6525	Office, Sleeper Trailers	167
	6526-6528	Assembly Trailers	49
	6530	Miscellaneous Trailers	1
U.	6250	Licensed Non-rental	28
V.	6200	Shop Equipment	1985
W.	3302-3303	Rock Breakers, Brush Saws	133
Z.	3300	Brush Cutters	17
	3301	Chipper	8

TECHNICAL STORES SECTION

There were 16 theodolites, 26 surveyor levels and 15 electronic distance measuring devices purchased during the year. All branches of the Ministry were supplied with expendible supplies such as drafting paper, survey tapes, level rods, test equipment and other everyday items. Repairs were made or arranged for all technical equipment handled by the stores.

The inventory of survey instruments as of March 31, 1983 was:

422 Theodolites and Transits
446 Surveyor Levels
66 Electronic Distance Measuring Devices

LANGFORD SIGN SHOP SECTION

The Langford Sign Shop produced all the Ministry's road sign requirements in 1982-83 in addition to Highway signs for the Ministry of Lands, Parks & Housing; Parks Branch.

In total 17,455 square metres of signing was produced, or 37,816 individual signs, plus 10,725 roadside reflective delineators.

There were no local labour stoppages during the year which saw 29,685 manhours used in the operation. During the year the final conversions were made to all printing screens, sign blanks, etc. so that the Sign Shop now is on a full metric measurement basis.

With many highway improvement projects in the Province, the Sign Shop produced 430 new style project signs, incorporating the B.C. Spirit logo in the design. Some uncommon signs also produced in the past year were 80 maintenance management scheduling boards, 24 "Welcome to British Columbia" signs, 80 decals for Ministry of Transportation and Highways Ferries, 2,000 double sided signs for the Tourism Minister and approximately 100 Municipal Affairs Ministry Revenue Sharing Project signs, also incorporating the B.C. Spirit logo.

The supply of metal sign blanks by the Ministry of the Attorney General has been above requirements and the shop has an adequate stock of sign blanks on hand, which allows for uninterrupted production.

The Sign Shop has some sign orders still over two months old and is constantly striving to improve delivery time on these.

FERRIES

Service was provided on 35 routes under the jurisdiction of the Ministry. This was accomplished by a fleet consisting of 24 certified vessels, seven reaction ferries, four cable ferries, five subsidized ferries and three miscellaneous ferries. There are also two tugboats and four barges for emergency purposes.

The fleet carried 3,798,560 vehicles and 8,503,537 passengers (including drivers) during the year. The totals were 3,944,009 and 8,851,871 the previous fiscal year.

Construction was completed on the 70 car double ended ferry, M.V. Quinsam. The Quinsam commenced operation serving the Nanaimo-Gabriola route on June 15, 1982.

Modifications were completed on the former Canadian Pacific vessel, M.V. Princess of Vancouver, and she entered service on the Comox-Powell River route on November 20, 1982.

The Fort Nelson hoverferry "Tsimeh", unfortunately caught fire and was destroyed. Service has since been carried on by a tug and barge operation.

Revenue

Alert Bay	275,461.65
Comox-Powell River	1,667,455.66
Cortes Island	107,424.70
Denman Island	268,997.10
Gabriola Island	562,749.73
Hornby Island	92,353.80
Quadra Island	450,480.40
Queen Charlotte Islands	139,672.37
Texada Island	202,839.70
Thetis Island	125,550.60
Woodfibre	8,118.00
TOTAL	3,901,103.71

RECORD OF FERRY TRAFFIC FISCAL YEAR 1982/83

ROUTE NAME	LEG TRIPS	PASSENGERS NOT DRIVERS	INCLUDING DRIVERS	AUTOS	TRUCKS	DANG. CARGO	LOGGING TRUCKS	RECREATION VEHICLES		TRAILERS /SEMIS	MOTOR BUSES	MOTOR-CYCLES	OTHER	TOTAL VEHICLES
								< 6M	> 6M					
Albion-Fort Langley	61,365	891,547	1,907,343	960,755	24,251	3	15	1,738	1,093	7,709	508	19,495	229	1,015,796
Alert Bay	14,121	158,499	227,728	61,863	3,379	144	6	1,007	350	871	210	1,136	263	69,229
Arrow Lake (Upper)	14,128	127,833	246,062	93,690	5,845	327	1,558	5,749	5,749	2,481	117	1,335	1,378	118,229
Arrow Park	14,594	15,520	29,088	11,179	760	4	278	262	552	337	13	54	129	13,568
Barkley Sound	376	11,645	11,645											
Barnston Island	63,724	97,608	184,201	54,970	25,689	195		1,657	70	1,214	1,088	1,240	470	86,593
Big Bar	2,274	2,239	3,681	14	843	20		111	2	43	2	95	312	1,442
Boston Bar	127,130	158,625	246,460	42,044	43,679	2		164				1,789	157	87,835
Castlegar	78,076	408,905	877,748	293,986	166,972	1	2	1,457	275	1,550	1,268	3,068	264	468,843
Clayhurst	28,241	30,251	56,976	22,763	2,642	3	1	144	130	356	9	68	609	26,725
Comox-Powell River	2,855	147,552	226,481	67,540	2,044	5	411	3,594	1,243	2,298	135	1,612	47	78,929
Cortes Island	4,251	39,988	71,833	28,309	1,328	11	1	935	290	477	231	221	42	31,845
Denman Island	14,646	254,398	456,949	183,143	6,144	157	391	8,607	1,718	404	228	1,666	93	202,551
Dodge Cove (Subsidy)	368	2,631	2,631											
Fort Nelson Hover	1,378	601	2,460	360	1,054	26	38	13	14	246	1	17	90	1,859
Francois Lake	17,108	152,367	287,596	115,202	8,516	642	2,976	1,549	1,632	3,865	221	366	260	135,229
Gabriola Island	12,151	410,878	693,957	267,380	7,300	317	27	841	808	1,598	164	4,289	355	283,079
Glade	76,004	89,078	177,718	84,762	813	22		239	21	317	1,773	550	143	88,640
Harrop	82,985	134,609	293,518	148,949	2,674	112	9	906	368	547	2,176	940	2,228	158,909
Hornby Island	10,104	122,533	213,229	79,002	2,661	74	18	4,842	754	1,948	150	1,177	70	90,696
Isle Pierre	7,240	5,360	9,214	1,157	2,457			60	23	92	6	32	27	3,854
Kootenay Lake	8,968	197,087	354,753	86,791	46,983	15	46	5,319	5,559	10,170	374	2,327	82	157,666
Lasqueti Island	1,410	23,676	23,676											
Little Fort	15,266	16,230	24,118	3,124	4,524				1	96		26	117	7,888
Lytton	20,937	54,860	80,902	8,585	15,463	1	1	74	21	66	1,156	350	325	26,042
Marguerite	16,391	19,220	31,266	4,303	7,207	64	10	205	9	175	5	46	22	12,046
McLure	18,342	18,654	33,657	6,592	7,623		26	53	36	244	6	299	124	15,003
Needles	28,470	192,205	311,062	97,110	4,805	214	454	7,204	4,257	1,393	520	1,634	1,266	118,857
Quadra Island	14,903	458,154	733,022	254,031	5,369	177	304	3,542	2,760	3,702	355	4,536	92	274,868
Queen Charlotte Isl.	6,700	64,100	129,470	57,057	5,971	148		436	341	1,044	256	69	48	65,370
Shuswap Lake (Subsidy)	320	986	1,838	164	384			11		141		9	143	852
Texada Island	7,185	109,667	193,788	77,047	2,786	202	47	1,807	278	902	75	867	110	84,121
Thetis Island	21,057	133,513	192,342	56,575	1,412	82	49	43	41	288	26	133	180	58,829
Usk	27,786	32,947	43,774	7,058	3,389			3		1	11	331	34	10,827
Woodfibre	5,590	121,011	123,351	429	1,314	155				356	2	11	73	2,340
TOTALS	826,444	4,704,977	8,503,537	3,175,934	416,281	3,123	6,668	52,572	28,395	44,931	11,086	49,788	9,782	3,798,560

FERRIES ROUTE USEAGE 1982/83

ROUTE NAME	FUEL CONSUMED 1000's L	TOTAL MANHOURS	COST PER TRIP	VESSEL CAPACITY USED %
Albion-Fort Langley	468	90,742.0	28.58	74.4
Alert Bay	1,011	58,208.5	114.27	42.9
Arrow Lake (Upper)	939	61,810.3	99.33	24.2
Arrow Park	18	5,812.0	8.99	13.7
Barkley Sound (Subsidy)	•	•	2,385.69	•
Barnston Island	56	20,401.0	6.31	54.6
Big Bar	0	4,637.0	46.28	42.8
Boston Bar	1	22,999.0	2.35	85.6
Castlegar	39	13,704.8	2.88	25.5
Clayhurst	47	12,737.5	8.22	14.7
Comox-Powell River	3,452	177,018.0	1,338.99	42.3
Cortes Island	397	32,862.0	198.24	50.1
Denman Island	334	52,549.7	91.67	52.5
Dodge Cove (Subsidy)	•	•	43.37	•
Fort Nelson Hover	16	2,769.9	72.25	N/A
Francois Lake	684	63,150.0	81.03	26.1
Gabriola Island	1,044	93,497.0	152.81	36.3
Glade	31	10,149.3	1.90	15.3
Harrop	50	11,569.0	2.39	20.0
Hornby Island	228	38,474.0	75.42	50.8
Isle Pierre	0	2,394.1	4.43	36.8
Kootenay Lake	606	89,216.3	189.95	56.4
Lasqueti Island (Subsidy)	•	•	131.09	•
Little Fort	5	4,320.5	4.05	34.0
Lytton	0	11,185.5	6.53	74.7
Marguerite	1	4,942.5	4.64	49.3
McLure	3	4,307.0	3.39	53.1
Needles	276	46,246.0	31.32	16.4
Quadra Island	718	88,474.6	122.65	64.6
Queen Charlotte Islands	237	24,945.5	106.17	42.9
Shuswap Lake (Subsidy)	•	•	82.50	•
Texada Island	857	75,217.0	255.97	26.2
Thetis Island	461	41,971.5	53.78	33.1
Usk	1	6,275.0	4.02	22.3
Woodfibre	305	36,442.5	145.53	9.0
-Spare Route	23	5,167.5	N/A	N/A
-Courtenay Dist. Office	N/A	22,470.0	N/A	N/A
...... TOTALS	12,308	1,236,666.5	N/A	N/A

• Subsidized operations - information not available.

COMMUNICATIONS SECTION

Because of the restraint program, little capital equipment for expansion and upgrading could be acquired. Nevertheless new mobile radio repeaters were added on Mt. McLean, west of Terrace, Mt. Allard, north of Terrace, and Sachs Creek, just south of Lytton. Repeaters near Salmo and Revelstoke were moved to reduce overreach to or from other areas in the province. The Ministry operates 4300 mobile, 950 portable, and 300 base station radios. There are 900 desk sets attached to these base radios.

There are now about 126 mountain-top mobile radio repeaters of which approximately 30 are powered by solar energy. The solar power package includes rechargeable nickel-cadmium batteries which on occasion have discharged enough to cause radio interruptions. During the year, primary cell packages were installed in most of these solar-powered sites which are automatically switched into the system when the secondary cells become discharged. The package also includes a method of remotely monitoring the condition of the secondary (nickel-cadmium) cells. The lifetime of a typical solar power package is expected to be between 10 and 20 years.

The Alaska Highway to 70 kilometers past Fort Nelson and the Fort Simpson Highway to the northern border are now provided with mobile radio coverage. Radio repeaters in this area terminate in the Region 4 communications console at Prince George.

A new remotely controlled traffic advisory sign was installed at Creston to alert travellers of waiting durations at the Crawford Bay ferry terminal. The displayed duration can be controlled directly from the Kootenay Lake Ferry. The sign equipment was designed and provided by the Traffic Branch while the radio and ferry portions of the system were designed and provided by the Communications Division.

Six video recorders were added to the cablevision systems located along the Stewart-Cassiar Highway to replace the existing film rental system, primarily for economic reasons.

A new Communications Management Information System was installed to provide inventory, maintenance, overhead, rental revenue, and other management information from activity data submitted by our field staff.

REGIONAL REPORTS

REGION 1

(W.E. Mercer, P. Eng., Regional Director Highways, Burnaby)
North Vancouver, Gibsons, New Westminster
and Chilliwack Districts

NORTH VANCOUVER DISTRICT

Roads

Maintenance: Again this year, Highway 99 was subjected to debris torrent. Alberta Creek Bridge was destroyed along with several homes in Lions Bay. This event claimed the lives of two Lions Bay residents. Lesser debris flows also occurred at Turpin and Newman Creeks during the same February storm.

To restore traffic once more a concentrated effort by North Vancouver and New Westminster bridge crews was required to install Bailey bridging. A second Bailey bridge followed immediately, paralleling the first.

Five emergency telephones have been installed at various locations between Horseshoe Bay and Squamish. These provide the public with direct communication to Deas Tower. Also concerning communication, an additional repeater has been placed on Gambier Island in Howe Sound. This virtually eliminates radio "dead spots" along the Squamish Highway.

Most minor betterment activity consisted of machine patching throughout the District.

The District continued with cost-saving sign davit installation programs in Squamish, Whistler, and Pemberton.

The rock scaling operation has continued for most of the year on Highway 99.

Construction: A three km section of Highway 99 south of Britannia near Furry Creek was converted from three to four lanes.

A significant gunite project was undertaken at Suicide Hill to preserve Highway 99 south of Pemberton and Day Labour forces also replaced Miller Creek Bridge in Whistler with a multiplate culvert.

Paving Branch undertook a grinding and repaving project between Lloyd Avenue and Lynn Valley on Trans Canada Highway 1.

Bridges

A new bridge at M Creek was opened in November. The District had undertaken the rockwork approach project.

At Culliton Creek, north of Squamish, work is well underway to construct a new bridge by contract.

A median conduit project was completed on Second Narrows Bridge and the pedestrian/equestrian overpass on Stanley Park causeway was resurfaced by District forces.

Buildings

The West Vancouver road crew was relocated to Horseshoe Bay to expedite operations on Highway 99. A viewpoint at Eagle Ridge interchange was utilized as a temporary office and yard site.

The Whistler foreman area and yard site were reactivated.

Ferries

The Garibaldi II has been operating sporadically on Howe Sound between Darrell Bay and Woodfibre because of frequent shut downs at the Woodfibre pulp mill.

GIBSONS DISTRICT

Roads

Maintenance: The maintenance program was carried out generally as planned. An extremely mild winter was experienced with a resultant saving on water operations. An extensive ditching, gravelling and brushing program was carried out in the months of February and March. Spring flooding was minimal and some minor problems were corrected by routine maintenance. A major machine patching program was undertaken on Highway 101 in the Pender Harbour area.

Construction: 0.9 km of third lane was constructed and paved on Highway 101, north of the Madeira Park intersection. 0.6 km of the Port Mellon Highway south of Gibsons Village was widened and paved. Crushed gravel was barged onto Keats and Savary Islands. 4.0 km of road on Savary Island were gravelled. 600 m of guardrail were installed on Highway 101 in the Gibsons, Madeira Park and Powell River areas. Ditching, gravelling and other improvements were undertaken on various roads within the District under the Minor Betterment Program.

Bridges

Normal maintenance was carried out on all bridges in the District. Extensive repairs were undertaken on Sallahlus Bridge No. 1419 because of deteriorating log stringers. Chaster Bridge No. 7355 was replaced with concrete abutments and box stringers.

Buildings

Maintenance was undertaken by B.C.B.C. in the normal manner. A new sign maintenance shop was constructed in the Gibsons Yard and completed at the end of November.

NEW WESTMINSTER

Roads

Maintenance: Normal maintenance was carried out throughout the District with additional emphasis on ditching and patching. Along with hand patching operations several maintenance betterment machine patching projects were carried out by contract and a total of 1 580 m^3 of asphalt mix was placed. Snowfall was not to be found in the District this year and during the winter the District carried out an extensive shoulder paving program completing 28 km. The sign and bridge crews replaced 10 old butterfly sign structures on Route 99 with new steel structures.

Construction: At Cougar Creek on Scott Road three existing cross-culverts were removed and replaced with a 30 m (3 400 x 2 000 mm) multiplate pipe. Scott Road was closed for 20 hours and traffic detoured via Municipal roads while crews completed the work on a Sunday.

District crews widened Route 15 at 64th Avenue in Surrey to provide left turn slots and bus pull-offs. On Route 1 at the Johnston Interchange the westbound off-ramp was reconstructed to improve the road base, drainage and shoulder width.

An additional two covered salt bays and two open sand bays were constructed in the Cloverdale Yard. Other building construction was the start on the new Deas Tower communications facility. The structure was completed this year and the finishing and installation of radio equipment is planned for next year.

Paving: The north side of Route 7A (Hastings/Barnet Highway) was ground and paved between Willingdon and Gilmore Avenue. The on and off ramps at the First Avenue Interchange on Route 1 were recapped. The median on Route 7 between Woolridge and Schoolhouse was paved to allow flushing of the median.

Bridges

The District bridge crew carried out extensive repairs to the North Alouette Bridge, adding additional piles and replacing caps and stringers and the running deck. The Nicomekl River Bridge on Pacific Highway was rebuilt to increase the design load to H.S. 20. The Sturgeon Slough Bridge timber trestle approaches were completely rebuilt and the deck widened by 1.1 m.

On Route 99 at the Number 5 Interchange the slopes under the two fly-over structures were regraded and concreted.

The District bridge crew and a Bailey bridge were loaned to the City of Port Coquitlam to replace the damaged Red Bridge which collapsed when a truck hit the end support on the old Howe Truss.

Ferries

Albion: Renovations were carried out on the existing building to accommodate an office for the Senior Captain and to provide storage facilities for supplies. The T'Lagunna went into refit during February and March and during this time the Kulleet was put into service.

Barnston: During the year the Barnston Island Barge went into dry dock where it was split down the middle and a three metre section added to increase the load capacity from 25 to 40 tonnes. During freshet the timber pile dolphin at the end of the sheer boom on the mainland side of the run was damaged. The damaged dolphin was replaced with a steel pile dolphin in December.

CHILLIWACK DISTRICT

Roads

Maintenance: Roads throughout the district were well maintained throughout the year. Crews were kept busy mowing and brushing along and there was a continual emphasis on cleaning and maintenance of area ditches. Dust control was achieved by the use of calcium chloride.

District crews had a relatively quiet winter as all areas experienced below average snowfall. The Trans Canada Highway had no major closures while the Hope-Princeton had one major closure of 19 hours due to avalanches.

Construction: Work continued on Hemlock Valley Road as culverts were increased in size, and sections of the road widened. Crews completed more drilling and blasting on Rockwell Drive along with minor grade revisions on existing paved sections. All sections then had crush spread on them in preparation for paving. The intersection of Bunker Road and Yale Road East was reconstructed and paved. Approximately eight km of Chilliwack Lake Road was regravelled and had crush spread on it in preparation for future paving. Crews widened the Lougheed Highway at the intersection with Morris Valley Road in preparation for the installation of left turn lanes. Drilling and blasting was carried out on North Nicomen Road to facilitate road widening. Culvert installation and road widening was carried out on Coquihalla Road.

Paving: District crews paved 1.5 km of Pattison Road on Hatzic Prairie. They also paved a .15 km holding lane at Cultus Lake Provincial Park and paved Frost Creek Bridge and approaches. Recapping of .3 km of the eastbound lanes and .2 km of the westbound lane was completed at Clearbrook on the Trans Canada Highway as well as .4 km of the Trans Canada Highway westbound lanes at Countyline. Crews also paved 3.6 km of shoulders on the Fraser Highway.

Bridges

District bridge crews were kept busy during the year with maintenance and accident repairs. Silver Skagit Bridge No. 2 had two stringers and new bull rails installed as well as two new stringers and bull rails on Silver Lake Bridge No. 6543. Crews also began installing new piles and caps under the Dewdney Bridge No. 596 located east of Mission on the Lougheed Highway. Various other bridges had new deck planks installed, fences repaired and painted.

Buildings

A steel building, formerly the service shop of Commonwealth Construction, was purchased for use as a salt shed and loader storage bay. The building was left on site after the completion of the Hope Slide realignment project on Highway 3, ten miles east of Hope. Crews constructed a timber salt bin inside and electrical servicing will be installed. This will be used for winter salt and sand storage for the area.

Ferries

Regular maintenance was carried out on the Boston Bar Aerial Ferry.

REGIONAL REPORTS

REGION 2

(R.W. Gittens, P. Eng., Regional Director Highways , Kamloops)
Kamloops, Salmon Arm, Vernon, Penticton, Merritt,
Lillooet, 100 Mile House and Kelowna Districts

KAMLOOPS DISTRICT

Roads

Maintenance: Routine maintenance was carried out on all roads within the District and also within the rural boundaries of the City of Kamloops. High water was evident in the spring, but very little flooding occurred. Less dust control was required because of an unusually wet summer. Patching was extended to accommodate poor pavement surfaces in many areas. A total of 17 000 m^3 of gravel was placed on various gravel roads and 6 600 m^3 more on various shoulders.

The winter was very mild with approximately one-third the normal snowfall at the Kamloops Airport. Although plowing and sanding were kept low, the milder temperatures required the use of more salt and frequent patrolling. Pavement break-up was more than normal.

Construction: Extraordinary patching was carried out on the Trans Canada Highway and also on Highway 5 north of Kamloops. Road widening was done on Fredericks Road No. 1892 and on Highway 24, Bridge Lake Road, where two sharp curves were removed. New four-laning was constructed on 3.3 km of Highway 5 and the widening of three three-lane sections on the Trans Canada Highway was started. Approaches for Fight Creek No. 1 and No. 2 bridges were constructed while the approaches to the new Clearwater River bridge, the Lemieux Creek bridge and the Halston Bridge were each partially finished by year end. One (1.0) km of road mixed asphalt was placed on Highway 24, Bridge Lake Road and 0.5 km of new road was constructed on Buckhorn Road No. 1005. Some minor road widening was carried out on Dixon Creek Road No. 1553, Goose Lake Road No. 2024, Roche Lake Road No. 4088 and Weir Road No. 5009. Various roads in the District were gravelled, three cattleguards were installed, 66.3 km of fence repaired or installed, 492 pieces of guardrail installed and 220 m of new culvert.

Bridges

Routine maintenance was carried out on all bridges in the District. The Red Bridge, which links the City of Kamloops to the Kamloops Indian Reserve, underwent extensive redecking.

Ferries

New bridle cables and ramp repairs on the Little Fort and McLure Ferries.

SALMON ARM DISTRICT

Roads

Maintenance: There were no special problems encountered with the routine maintenance other than the rock slide on Mara Lake Highway 97A. The slide created several short road closures in the spring of 1982 and spring of 1983. It is now considered a major unstable slide. A ditch was constructed on the upper side of the Gleneden slide along the Trans Canada Highway receiving top priority. Some of the gravel roads had considerable breakup this spring due to the lack of frost in the ground.

In the first part of the 1982/83 winter, the District had a considerable number of snowfalls and this created considerable expense for the winter maintenance activities. The Malakwa area received the usual high snowfall with about 1.0-1.5 m of compact snow on the ground.

Subdivision: Subdivisions within the district created an additional 11.66 km of new road and the abandonment of 1.82 km. There were 251 new lots created and 291 permits issued.

Construction: Under the day labour program the District continued regravelling throughout the district with some minor reconstruction. Left turn slot at the junction of Trans Canada Highway and Lybarger is 75% completed and is the only continuing project for 1983. 1 317 lineal metres of extruded concrete curbing was installed at four intersections west of Salmon Arm on the Trans Canada Highway. Under the guardrail program crews installed 1 560 m of type A guardrail on Kamloops-Vernon Highway 97. A paving project was called for recap from the south boundary of Salmon Arm District to Schwebs bridge - Highway 97 for a distance of 5.29 km. The District crews completed 19 km of Schedule II fencing along Highway 97.

Bridges

Seven of the major bridges on the Trans Canada Highway were recapped in the spring of the year by Headquarters crews.

Manson Bridge has been replaced with a 14 m concrete box beam this winter. General maintenance was carried out throughout the district - painting, redecking, etc.

VERNON DISTRICT

Roads

Maintenance: The Vernon Highway District experienced yet another wet spring with high water tables triggering slides that caused major damage to many roads. Whole section slides and closures resulted on the Westside, Finlaison, and Lumby-Mabel Lake Roads. Extensive repair and drainage installations were necessary in the Grindrod, Enderby, Vernon and Lumby areas.

The ditching program was intensified to attempt to minimize problems with continued high water tabe-runoff occurrences.

Summer maintenance was normal except for pavement gravelling which required extensive patching and overlays on many roads.

The Districts regulatory function showed a slight decrease in development activities with processing of 161 subdivision applications for a total of 259 new lots. Access applications were 161 with other permits totalling 376.

Winter maintenance was average with routine operations. Additional sheds were constructed at Cherryville and Vernon to facilitate handling of road salts.

Construction: In conjunction with Paving Branch projects, four left turn slot intersections were completed on Highway 97 between the Swan Lake Junction and O'Keefe. Reconstruction too on Highway 6 east of Lumby for 16 km.

Reconstruction and gravelling was extended on the Enderby-Mabel Lake Road, Edgar Road, Gardom Lake Road, Richland Drive, Glen Hayes and Hartnell Roads.

Paving

Pavement widening was completed on three km of Highway 6 through Coldstream Municipality. An additional 6.4 km of the Westside Road was given a paved surface.

Bridges

A new pile trestle bridge with a 27.5 m Bailey span was completed across the Shuswap River at Mara. A complete new superstructure was replaced on the Ireland Creek Bridge. Thirteen other District bridges were given significant repairs.

PENTICTON DISTRICT

Roads

Maintenance: The maintenance was extensive and comprised the usual ditching, culvert maintenance, shouldering, etc. However, a very heavy patching program was accomplished in all the areas on the side roads.

The District experienced unusually intensive rains early in 1982 and many water problems occurred such as shoulder erosion on Anarchist Mountain area and the Richter Pass on Highway 3. This initiated a reshouldering program which was above average.

An unusual mud slide occurred on 87th Street in Osoyoos, involving the possible undermining of a residence and creating above normal problems. Also, the Naramata Road fill gave way and there was a similar embankment washout on the Eastside Road (Sovereign Road) all of these due to the unusual avalanche.

The winter was very mild but maintenance costs were normal with some savings on materials only. The Apex Ski Hill was put out to contract and this operation ran with minimal disruption except for one small avalanche.

Construction: Continual upgrading of the Princeton to Summerland Road No. 40 has been carrying on and some severely narrow sections have been widened around km 31.5 (Roberts Section).

An 8.3 km section from the present end of pavement (15.5 km from Princeton) has been reconstructed and is ready for paving and reconstruction is carrying on to Siwash Creek gravel pit at km 27.9.

Other reconstruction is being carried out on the Keremeos Bay Bypass and the so-called Suicide Corner on Highway 3 which now has one smooth curve replacing two eccentric curves and eliminating a potential hazard.

Parson's Road has been completed and paved and McLean Creek and Chute Lake Roads upgraded.

Schedule II fencing has been carried out in all areas by contract and a guardrail program instituted on Anarchist, Highway 97, Highway 3 near Keremeos and Hedley.

The truck lane of Roadhouse Hill has been repaved on Highway 3A, due to a fill slippage.

Bridges

Maintenance for the bridge crew comprised the normal bridge cleaning, minor redecking, painting, stream channelling, inspection, deck oiling, and deck surface repair again to Sterling Creek Bridge, the latter deteriorating badly.

The following are the major accomplishments.

1. MacDonald Bridge No. 6137 in Oliver was re-tied, redecked, and stringers replaced.
2. On Armstrong Chapaka No. 0876 in the Cawston area, the District replaced 75% of the floor joists, re-tied and redecked, and replaced posts and rail with new posts and flex beams.
3. Princeton-Hedley No. 2 (Q-6158) (1 Mile Creek) - crews reconstructed 15.2 m box stringer on H-piling and a concrete cap.
4. Shingle Creek Bridge No. 6161 and No. 6162m were eliminated and replaced with 84"Multiplate and 60" C.I.P. respectively.

MERRITT DISTRICT

Roads

Maintenance: The District received several surfacing projects and these required District involvement either before or after. Extensive patching was carried out on the Highland Valley and Meadow Creek Roads in the Logan Lake area in preparation for a sealcoating project. Patching and road base repairs on Highway 5 North and South were also undertaken in preparation for a paving project on Highway 5 North and a drum mix paving project on Highway 5 South. The shoulders on Highway 5 South required gravelling after the completion of the drum mix paving project to bring them back up to grade. Extensive hand patching was required on Highway 1 between Spences Bridge and Happys Gulch most of which was on the edge of the pavement in the treated shoulder where vehicles had been overriding the shoulder. This section of Highway 1 is presently being resurfaced under a paving contract.

A hired gradall with a flail attachment was employed to undertake machine brushing in the Coalmont and Merritt areas.

Cattleguards received more than normal attention in the Merritt and Logal Lake areas as an extensive repair and cleanout program was undertaken.

Tests were conducted on the Coldwater Road of two types of dust palliative, calcium lignosulfonate and magnesium chloride. They were applied at various application rates and their performances evaluated. The wetter than normal summer weather tended to favor the magnesium chloride which was considered to be the better product.

An extensive training program was carried out in all foreman areas in the District to ensure that operators were adequately trained in the operation and maintenance of the new diesel engined single axle trucks that are currently being issued to the Districts.

Mild winter required crews to be alert to the possible development of icing conditions and necessitated higher than normal salt usage.

Construction: The reconstruction of Meadow Creek Road continued with the completion of another two km of new grade. The emphasis on the installation of guardrail continued with 609 pieces of 690 mm no-post guardrail installed on Highway 1 and 421 pieces installed on Highway 5 South. The funding for Schedule II fencing was significantly increased and the work completed through local call contracts, approximately 12 km of fence was either reconstructed or reposted.

The major projects in the capital betterment program were: Shouldering Highway 5 South, reconstruction of 2 km of Botanie Creek Road, machine paving on Highland Valley and Meadow Creek Roads, and the installation of a cattle underpass and cattleguard on Douglas Lake Road.

Bridges

The four pedestals and north abutment on the Lytton Bridge were repaired. The deteriorating concrete on the pedestals and north abutment was chipped away, reinforcing installed and a thick layer of fiber reinforced shotcrete applied to strengthen these structural members and prevent any further deterioration.

Several bridges were redecked, including Brookmere No. 1 and No. 2, Patchett and Collettville Bridges. A 55 m double-single cord-reinforced Bailey bridge was installed in Coalmont over the Tulameen River to replace a deteriorating Howe Truss that was constructed in 1922.

Maintenance and repairs were carried out on a number of other structures.

Ferries

The Lytton Ferry service was disrupted for several weeks in the spring due to high-water. Moveable docking ramps were constructed and installed replacing the existing deteriorated ramps. The bridle cable was replaced in the spring. The Zodiac life boat with motor was stolen off the ferry in early May necessitating the purchase of a replacement. The water level dropped in early December to a point below the ends of the existing ramps and this required the end dumping of talus rock into the river to build a pad so that the docking ramps could be moved down lower to keep the ferry in service.

LILLOOET DISTRICT

Roads

Maintenance: Extensive road base repairs, re-strengthening, machine patching and ditching were carried out to alleviate problems of spring break-up on the main highways in Lillooet District; Trans Canada Highway 1, Cariboo Highway 97 and Highland Valley Road.

The Paving Branch completed a major pavement recapping of the Cariboo Highway 97 from Cache Creek to the District Boundary and also some extensive machine pavement patching of the Trans Canada Highay 1 from Cache Creek to Oregon Jack. These improvements should decrease the problems associated with spring break-up.

The Avalanche Program encountered a warm winter with light snowfalls and no major road closures were therefore necessary.

Construction: For the construction program, the culvert for Barnard Creek on the Highland Valley Road was installed in preparation for the large fill to be completed in the 1983 proposed construction. Some widening for realignment and gravelling was performed on the Duffey Lake Road and the Lillooet-Pioneer Road.

Eighteen km of fencing was done along the Highland Valley Road in preparation for Schedule II classification and to protect the cattle from the heavy mining traffic.

Guardrail was completed at Crown Lake, Pavilion Lake and the Gibb's Creek Bluffs areas.

The extension of Main Street was paved by road mixing.

Bridges

The Old King Truss bridge, Baker Bridge, over the Bonaparte River on the Loon Lake Road was replaced with a new concrete box beam structure.

Blowdown Bridge, a spruce stringer logging bridge, on the Duffey Lake Road was strengthened by installing a Bailey bridge on top of the existing log structure.

100 MILE HOUSE DISTRICT

Roads

Maintenance: Unseasonal rainfall was experienced from the commencement of the year through to the beginning of winter. Precipitation was recorded at 300% of the 10-year average. As a result, the District experienced several water problems as roads became inundated. Fortunately winter was the reverse. Temperatures remained above normal and snowfall was extremely light.

The District conformed generally to the planned maintenance program with emphasis on surfacing activities. Patching requirements remain a high priority as the paved road surface continues to deteriorate on the Cariboo Highway 97 south of 100 Mile House. The light winter resulted in considerable savings to the maintenance budget with all foreman areas recording an underexpenditure in winter maintenance operations.

Construction: A number of projects were completed under the day labour program including Highway 24, new construction 5 km; shoulder widening and stabilization on Highway 24, Canim Lake Road No. 318 and Horse Lake Road No. 371; miscellaneous upgrading, ditching and gravelling various locations; and fencing of Schedule II highways; new construction two km Abel Lake Road.

Bridges

General maintenance was provided including redecking, painting, timber repair, etc.

Pile-trestle structures were replaced for both the Faessler Bridge and Gaspard Bridge.

Ferries

The Big Bar reaction ferry continued routine operation throughout the summer months. During the winter months, the aerial ferry is put into regular operation. No downtime was recorded.

KELOWNA DISTRICT

Roads

Maintenance: Spring break-up was moderate but extensive pavement patching was necessary. To assist with the usual seasonal patching program, a local paving contract was tendered and awarded early in the fiscal year for the purpose of machine patching and recapping several sections of Highway 97 and Highway 33. In an effort to further reduce the road requiring dust control, a sealcoating program was carried out with District forces. A total of 20.9 km was sealcoated at a cost of $132,000. In addition, 308 000 l of modified calcium lignosulfonate was used for dust control throughout the District.

Above average rainfall was experienced during the months of June and July. The following statistics are of interest. Rainfall for the last five days of June was 62.2 mm, whereas the average precipitation for the entire month of June is 26.9 mm. The measured rainfall for the first two weeks in July was 94.2 mm. The average precipitation for the entire month of July is 24.1 mm. As a result, the District was faced with many flood occurrences, particularly in the Kelowna and Winfield areas. Approximately $270,000 was needed for the unexpected flood control and repair works.

Snowfall in the valley was light. However, roads at higher elevations particularly the Big White Road leading to the Big White ski resort required at least average winter maintenance.

Construction: Complete reconstruction and paving of the Swamp and DeHart Road junction located within the rural area of the City of Kelowna was completed. Construction of the Highway 97 widening south of Winfield at Commonwealth Road was carried out.

Bridges

The old Reimche Bridge in the Winfield area was replaced with a new structure. Because of increased traffic on the Westside Road, it became necessary to replace the deck of the Bear Creek Bridge located at the newly established Provincial Park.

REGIONAL REPORTS

REGION 3

(W.M. Sproul, P. Eng., Regional Director Highways, Nelson)
Nelson, Rossland, Grand Forks, New Denver, Cranbrook,
Fernie, Golden, Revelstoke and Creston Districts

NELSON DISTRICT

Roads

Maintenance: A regular scheduled maintenance program was carried out in all Foremen areas throughout the District. Spring runoffs were less than anticipated despite the extraordinary snowfall during the winter of 1981/82. 4.0 km of side roads were upgraded and improved. 2.0 km of previously dedicated road was opened to traffic. Snowfall during the winter of 1982/83 was average and the District had little difficulty maintaining good winter road conditions. Spring runoff rains in 1983 caused several land slips in many areas of the District.

Construction: No major projects were undertaken during the year. The District crews continued with an improvement program for Highway 3A east of Nelson. The District embarked on a sealcoating and inverted prime program with good success.

Bridges

The bridge crew continued with construction of the Airy Creek bridge anticipating completion in 1983. A large multiplate culvert was installed at Winlaw to replace an existing damaged culvert. The bridge crews were occupied for much of the year repairing and upgrading the Kootenay Lake Ferries dock and preparing the M.V. Anscomb and the M.V. Balfour for refit.

Ferries

Summer traffic was down from the previous year but still heavy and required our vessels to work to capacity. The M.V. Anscomb went into dry dock for refit in April. C.S.I. inspection proved the vessel to be in very good condition. Engine trouble was experienced with the M.V. Balfour propulsion unit and required a major overhaul. Glade and Harrop Ferries operated as usual without serious interruption.

ROSSLAND DISTRICT

Roads

Maintenance: A slow transition from spring to summer allowed the heavy winter snows to melt away without causing much havoc to drainage courses. However, the winter sand accumulations made spring cleanup laborious.

Economic restraints produced a few slow summer months, but winter came suddenly requiring forces to rally to handle the heavy snowfalls. Records revealed that the total snow for November was the 4th highest since 1905 and both December and January were also above average.

Milder temperatures and rainfall at lower elevations during the latter half of the winter resulted in early road restrictions and a rash of potholes which kept patching crews busy.

On March 10th heavy rains flooded already full streams that then broke out of the mountains above the Waneta-Nelway Road washing out sections and spilling muck and debris throughout a 16 km stretch. Two creeks, Four Mile and Seven Mile, continued their ravage to the 7 Mile Dam Access Road below plugging the 1 200 mm diameter culverts installed in narrow steep gullys. Daylight revealed ponds forming which increased in depth to approximately 20 m.

Highway crews and contractors worked feverishly to save the fills, but to little avail as seepage increased and finally Four Mile Creek broke through taking out 60 000 m^3 of fill to a depth of 23 m at centreline. Approximately 40 000 m^3 peeled off the downstream side of the Seven Mile Creek crossing leaving a precarious situation until pumps reduced the 20 m head. As of the end of March the Waneta-Nelway Road has been restored, Four Mile has had most of its fill replaced and a crew is digging through eight metres of muck in search of the Seven Mile Creek culvert.

Construction: Capital expenditures consisted of paving and recapping approximately 2.5 km of minor roads. Approximately 850 m of guardrail was installed mainly along Highway 3B between Rossland and Trail.

The Castlegar concrete operation produced 3,842 pieces of 690 mm guardrail, 42 lampstandard bases, 22 electrical boxes and approximately 200 m of curbing.

Bridges

Concrete repairs were made to the Kinnaird overpass and the Kinnaird and Brilliant Bridges. Also Beaver Creek No. 3 and Kelly Creek No. 1 and No. 2 had their timber decks replaced.

Ferries

Except for a few broken cables and minor repairs the Castlegar Ferry operated without major problems.

GRAND FORKS DISTRICT

Roads

Maintenance: 24 Grand Forks District side roads were upgraded (from grading to minor construction) for a distance 0.05 km to 3.2 km and given a graded seal treatment by a hired contractor, all part of the Minor Betterment Program for 1982/83. Sealcoat totalled 15 km. Heavy localised rainstorms from Rock Creek west removed large sections of Highway 3 shoulders in several places. Snowslides west of Paulson Bridge were small but several on the upper Northfolk Road No. 30 caused closures for part of the day in early 1983.

Construction: Reconstruction of Highway 33 from Westbridge km 13.5 to km 17.6 was completed by mid-June in time to be paved by Headquarters drum mix crew, after their completion of several sections of pavement overlay amounting to 38 km from km 17.6 north to km 67.9 near Kalis Creek as well. Highway 33 was landscaped from Westbridge towards Rock Creek and returned old road outside of the new right of way to farm status by spreading the stockpiled topsoil from the new road relocations, per Land Commission request. A left turn slot for Village of Midway was constructed, plus two left turn slots of Highway 3 at junction with Boundary Creek Road No. 7 east of Greenwood. All three of the above turn slots were completed for pavement by the same Headquarters drum mix crew. Fencing of 10.5 km was constructed and/or reconstructed, and 690 mm guardrail totalling 750 m was installed in six places. By March 31, 1983 several km of Northfork Road was constructed and continuing. New Junction C.N. Highway 3 and Highway 41 to Carson and Dunville Customs as Carson Corner new construction was completed ready for paving contractor.

Bridges

Repairs are proving to be more difficult each year as several old Howe Trusses get older and eventually the chords will be beyond repair.

Steel fence panels from Boundary Falls and Ingram Bridges were galvanized and re-attached.

Texas Creek Bridge was reconstructed, with concrete abutments, steel stringers, flex beam railing, timber ties and deck. Savage Bridge, a small wooden bridge, was replaced with the same type. Sleep Hollow Bridge was replaced by a 2 400 mm diameter multiplate culvert. Kettle River Bridge was refurbished with new crib and posts, new stringer, ties deck and railings.

CRANBROOK DISTRICT

Roads

Maintenance: District roads were all well maintained during the year and some man-hours were transferred to Maintenance Management Activities with a higher priority.

Road base repair, patching, ditching, grading, culvert maintenance and sign maintenance were the main summer activities with extensive skin patching undertaken on a 23 km section of Highway 3 between Fort Steele Junction and Wardner.

Dust abatement was placed on 27 km of gravel and dirt roads using Calcium Lignosulfonate and Calcium Chloride.

Snowfall was well below normal at the lower elevations during the very mild winter. However, sand/salt usage was high with temperatures fluctuating around zero degrees Celsius. Maintenance of gravel and dirt side roads was notably more difficult than normal because the mild weather turned compact snow into ice.

Construction: The majority of the capital day labour funding was spent on double flushcoat and reflush treatment of various streets and roads throughout the District, with the double flushcoating amounting to 2.5 km and a reflush treatment, 22.5 km.

Other work undertaken involved 3.2 km of new construction, widening and grade revision.

Approximately 300 m of 690 mm no-post guardrail was installed on Highway 3 and Kimberley Highway 3A.

Schedule II fencing contracts were awarded for three areas and amounted to approximately eight km of new fencing.

Bridges

Work was undertaken on two bridges on Highway 3 in the Yahk foreman area involving the replacement of deteriorated and spalling concrete. One project covered the Moyie River-Curzon Bridge, where the concrete was replaced on portions of the abutments, piers, main span, beam span and curb, and another involved replacement of a portion of the sidewalk and curb and also the northly abutment seat.

137 m of fence railing on Moyie River-Kingsgate Bridge No. 612, located on Kingsgate-Yahk Highway 95, was removed and metallized, while 184 m of railing on Aldridge Bridge No. 955 and 101 m of railing on Cranbrook East Overhead No. 1437, both located on Highway 3, were galvanized.

Buildings

Eye protection areas in the Cranbrook, Kimberley and Yahk shop were denoted and appropriate signs posted.

The concrete floor in the Cranbrook Shop was resurfaced under contract through B.C. Buildings Corporation. Also, major renovations providing more space to the District Office were undertaken by B.C.B.C.

NEW DENVER DISTRICT

Roads

Maintenance: Spring runoff was slightly above normal, the only problem in the District was on Highway 31, Howser Junction to Gerrard, where the Lardeau River overflowed its banks in numerous areas. However, only slight damage to the highway was experienced. All maintenance was carried out in the District with emphasis on ditching in the Edgewood area.

Minor Betterment funds were used to upgrade shoulders, drainage, alignment and surface.

Construction: Highway 6, three km north of Fauquier, was widened and relocated to avoid a slip area. Construction started mid-February and completed mid-March to subbase. Finish grade and paving to be completed next fiscal year. About 845 m of 690 mm guardrail was installed.

Bridges

Beside normal bridge maintenance, the old Gerrard Bridge on Highway 31 was dismantled and replaced by a 74.5 m Acrow. Work was completed mid-March. A 4.5 m x 30 m multiplate culvert was installed at Three Forks, Highway 31A, five km east of New Denver to replace Kane Creek Bridge. Grade to be completed in April.

Ferries

M.V. Needles maintained its regular schedule despite an engine overhaul. Arrow Park Ferry - Main Drive cable was replaced in mid-summer.

FERNIE DISTRICT

Roads

Maintenance: The area experienced an early but mild winter. There was more rain than usual during the winter months which resulted in the breakup of some side roads. Calcium chloride was used for dust control on most side roads. There was a considerable amount of fence repair required in the Jaffray and Sparwood areas because of wildlife crossing the highway. Some side roads were regravelled and this will strengthen the base and improve the driving conditions. There were a few debris slides west of Fernie and one temporarily closed the highway.

Construction: Shoulder widening and ditching was undertaken on Elk Valley Highway for a 1.9 km section. Bridge approaches were constructed for Wilson Bridge on Elk Valley arterial No. 489R. Corbin Road and Corbin arterial No. 448R was partly reconstructed or continuation of previous year's construction for a distance of 3.9 km. Three left turn lanes were constructed at the junction of the Elk Valley Highway and Fording Mine Road in Elkford. A shoulder treatment program was carried out on Crowsnest Highway 3 for 15.1 km west of Sparwood. An inverted prime surface was placed on a number of side roads in the Hosmer, Fernie and Jaffray areas. A total of 1.32 km of 690 mm concrete no-post guardrail was placed where required.

Bridges

A new deck and end posts were constructed on Michel Prairie Bridge. On Hosmer Bridge the fence panels were removed, sandblasted, and some metallized and replaced. A new timber stringer bridge was constructed at Red Creek. Big Sand, Alexander and Davis Bridges had deck, end posts and wheel guard repairs. Betania Bridge received a new deck and cribbing. The spring runoff was normal and there was no bridge embankment erosion.

Major repairs were undertaken on the Loop Bridge and the Michel Mouth Bridge. This consisted of removing the top 1.5 m of the ballast wall and replacing with new re-bar and concrete. A new diagonal bracing was installed on the Morrissey Bridge and additional blocking was installed under the corbels.

Buildings

A 200 tonne capacity salt storage shed was constructed in the Jaffray area. Plans for a new maintenance depot at Elkford are in the preliminary design stage.

GOLDEN DISTRICT

Roads

Maintenance: District roads were kept in good repair throughout the fiscal year. Spring breakup was earlier than usual but road restrictions were not required on any district roads this year. Paving of short sections of Highway 93/95 and several bridge approaches in the Golden area was undertaken by a local contractor. Dust control program was minimum due to generally wet weather over the summer months.

Two slides occurred south of Golden as a result of heavy rains. (1) Degrazie Creek (Castledale Area) flooded in mid-July depositing approximately 2 000 m^3 of material on Highway 95 as culverts become plugged. Minor flooding occurred again in this area September 4, 1982. (2) Washout Creek (20 km south of Golden) mudslide on September 4, 1982 washed out Campbell Bridge (a 15 m structure), left the natural creek channel some distance below the bridge, flowed through farm property to Highway 95 and deposited approximately 30 000 m^3 of material on the highway before coming to a halt. Highway 95 was closed over the weekend with detour across slide area opening September 6th.

Snowfall was less than normal this winter but conditions were such that frequent sanding and salting was required to maintain District roads in good driving condition throughout the winter months. Private equipment operators provided snow plowing services to the public in rural areas this winter. Thus, Ministry involvement with private driveways was very limited this winter. Hopefully this trend will continue.

Golden District achieved the lowest personnel accident frequency in Region 3 for 1982 and was also the most improved. As a result, approximately 65 employees qualified for safety luncheons in the District.

Construction: District maintenance betterments resulted in improvements to Golden/Donald Upper, Homes-Deakin, Blaeberry School, Moberly Branch, Finley Creek, Dry Gulch, Thomas roads with minor reconstruction and gravelling undertaken on these gravel roads. Sign islands were constructed along Highway 93/95 and Trans Canada Highway, in an effort to reduce sign maintenance. Also, signs in the area of Trans Canada and Highway 95 junction were installed on light standards, thus improving the appearance by eliminating a large number of sign posts. Curb drops were constructed at several intersections in the Town of Golden by Town personnel under the District betterment program. Anderson Road, Dry Gulch Road Intersection and several short sections of Highway 93/95 were paved. Major day labour projects included shoulder widening on Trans Canada Highway east of Golden. A culvert installation by horizontal boring (44 m) south of Windermere was done by contract. Toby Creek cut-off was reconstructed for two km. Guardrail program involved installation of 690 mm guardrail on Athalmer Hill and Radium Hill. Materials were supplied to property owners to repair deteriorated fences along Highways 93/95 under Schedule II Highway Fencing Program.

Bridges

New bridges constructed by District bridge crew were Campbell No. 6319, Jumbo No. 6330, and the main span of Spillimacheen Swing No. 26. Campbell Bridge was washed out September 4, 1982 by Washout Creek mudslide. New bridge fence panels were installed to replace fence panels damaged by motor vehicle accidents on Park No. 1358, Yoho No. 1358, and Canal Flats No. 22. Railings were replaced on Horsethief No. 0258 and Toby No. 29.

REVELSTOKE DISTRICT

Roads

Maintenance: Spring breakup kept crews busy on Nakusp-Mica Creek Highway 23 (north), with pavement repairs, erosion repairs at km 29.2, km 38.0 and km 42.0, and drainage repairs at km 10.3 and km 67./6. The snowfall was below average for the year, resulting in minimal avalanche activity. Trans Canada Highway and Nakusp-Mica Creek Highway 23 (north) were closed for 11 hours on January 7, 1983 and Balfour-Kaslo-Galena Bay Highway 31 for eight hours on January 16, 1983. 600 m of 460 mm guardrail was replaced with 690 mm guardrail on Trans Canada Highway and existing guardrail was moved and straightened at Three Valley, Albert Canyon and Revelstoke West intersection. M & F road stabilizer was again used on gravel roads throughout the District. General maintenance was carried out in all areas with extensive ditching and culvert maintenance being carried out on Trans Canada Highway and Nakusp-Mica Creek Highway 23. A small wooden bridge was replaced with a 120 cm culvert at Lebeau Creek on Balfour-Kaslo-Galena Bay Highway 31 and two 120 cm culverts were also installed on Fish River Road.

Construction: Reconstruction was completed on 0.64 km of Mychulac Road and clearing was undertaken on Hill Creek Road and Dedosenco Road for a total of 1.71 km. Approaches were constructed to the new Lardeau River Bridge at Trout Lake. Corner and shoulder widening continued on Beaton-Armstrong Lake Road and reconstruction and a double surface treatment were completed on Sunnyside Road, Catherwood Road and Lennard Road for a distance of 1.05 km.

Bridges

Bridge cleaning was completed on all bridges. Bridge railings from Clanwilliam Overhead were sandblasted and galvanized. A new concrete box beam span was constructed over the Lardeau River at Trout Lake to replace Trout Lake Bridge. The piers and west abutment were capped on the new Armstrong Lake Bridge to accommodate concrete box beams. Mulvehill, Woods, Three Valley and Camp Creek Bridges were resurfaced by the bridge resurfacing crew. A steel mesh deck test section was installed on Columbia River Bridge.

Ferries

MV Galena maintained a regular schedule throughout the year, the only problem being a recurrent breakdown of one of the generators. New exhaust stacks were installed because the old ones were rusting.

Buildings

A sand shed was constructed at Albert Canyon Yard, loader sheds were erected at Albert Point Pit and Jordan Pit, and an ambulance shelter was constructed at 50-Mile Yard.

CRESTON DISTRICT

Maintenance: Considerable spring rain while frost was still in the ground and some frozen culverts caused minor flooding and surface damage to side roads. The Minor Betterments program helped upgrade some of these areas with improved drainage followed by gravel application.

The guardrail program continued with the installation of 366 m of 690 mm no-post and 137 m of Flexbeam.

Subdivision and permit applications were fewer than last year with 78 subdivisions and 125 permits processed.

Winter maintenance activities were generally routine with above normal temperatures and near normal precipitation. Kootenay Pass snowfall totalled 931 cm. Recorded avalanches totalled 322 of which 173 were controlled releases. A total of 894 rounds of explosives were use in avalanche control work. Total road closure time was 269 hours, 20 minutes. The longest closure was 91 hours, 30 minutes from January 9 to January 13, 1983. Within this closure section two avalanche paths that had not run in approximately twenty years became active again.

Construction: Several projects were completed on District side roads with four km reconstructed and 19 km reshaped, gravelled and sealcoated.

Bridges

Regular maintenance was undertaken on 29 structures. A small bridge was constructed over Houghton Creek for access to a gravel pit. A Bailey structure over Russell Creek was replaced with a large culvert.

Buildings

District bridge crew carried out general maintenance as required. Architectural design is in progress for a new camp complex at Kootenay Pass.

REGIONAL REPORTS

REGION 4

(L.A. Broddy, P. Eng., Regional Director Highways, Prince George)
Prince George, Quesnel, Dawson Creek, Fort St. John,
Vanderhoof, McBride and Williams Lake Districts

PRINCE GEORGE DISTRICT

Roads

Maintenance: The heavy snowfall from the previous winter melted slowly in the spring of 1982. This heavy snow caused many clogged watercourses which in turn caused flooding on some local roads. However, serious road damage was minimal.

There was no heavy frost heaving or damage caused to trunk highways or local roads.

There was one major slide on Yellowhead Highway 16 at Josephine Hill which necessitated closing one lane of this three-lane section until the cause of the slide was determined and proper final repairs completed. Highway 16 East had numerous ditch backslope failures which required an extensive ditch repair program for the summer.

During July, 1982, the weather was very wet but later cleared and as a result the District's minor betterment, regular improvements and maintenance program throughout progressed well.

One heavy rainstorm in September, 1982 caused flooding on the Upper Fraser Road. Three culverts were washed out east of Upper Fraser necessitating a short road closure and establishment of detour routes.

This same storm caused undermining of the east pier of the Bowron River Bridge on Highway 16. A speedy and major effort by District maintenance crews in diverting water and carrying out repair works avoided collapse of this structure.

The light snowfall and mild temperatures in the 1982/83 winter eased the snow clearing operations. This mild weather also allowed the District to continue road improvements and construction late into the winter season.

The mild temperatures required above normal use of chemicals to maintain the bare pavement policy.

Construction: Major crack sealing and patching were carried out on 135 km of trunk highways in preparation for sealcoating.

1.0 km of the MacKenzie arterial was reconstructed.

The Prince George Bypass (Highway 97) was widened north of 5th Avenue.

Remedial works were carried out to repair the slide area on Highway 16 west (Josephine Hill).

0.5 km of right of way was completed of the Foothills Bridge approaches.

Clearing and fills were commenced in swampy sections of the John Hart Highway 97 north of Bear Lake.

Truck lane widening and shoulder repair plus widening in rock cuts commenced in March in preparation for repaving of Highway 16 from Upper Fraser Road to the Bowron River.

Reconstruction was completed on 1.6 km of the Ness Lake Road.

Reconstruction was completed on 17.6 km of miscellaneous school bus and feeder roads within the District.

Reconstruction continued on 1.9 km of the Longworth Access Road.

1.5 km of guardrail was placed on trunk highways.

6.5 km of fencing was completed on Schedule II highways within the District.

Bridges

The Dome Creek Bridge No. 3 was replaced with a new two-span prestressed concrete stringer, pile trestle bridge.

The Old Fraser Bridge required extensive welding to the deck again.

Additional piles were driven to strengthen the load capacity and add steel protection plates to the instream pilings on the Misinchinka Bridge.

Riprapping of five bridge abutments was completed in the Aleza Lake and Longworth area and five on the John Hart Highway 97.

The entire bridge crew spent seven weeks assisting in bridge construction in the Williams Lake District and the District crane operator spent considerable time in adjoining districts in pile driving operations.

Damage repair and regular maintenance was carried out on district bridges for the remainder of the season.

Buildings

No new buildings were received nor major modifications made to existing structures.

Ferries

The Isle Pierre Ferry was out of service until April 15, 1982. It remained in operation until November 22, 1982 when low water and ice conditions necessitated its removal from the water.

QUESNEL DISTRICT

Roads

Maintenance: Extremely light snow conditions were encountered during the winter months and the winter damage was light.

Although spring runoff was extensive and prolonged, no major problems were encountered.

Dust control with calcium chloride was undertaken over 100 km within the district.

Construction: Realignment and reconstruction complete with paving was completed on a one km section of Highway 26 in the Barlow Creek School area.

Teofil Road was reconstructed and Yendryas Frontage Road was extended to tie into Teofil Road.

A large double culvert installation was completed on Camp Creek Road.

56 km of other district roads were included in the district's construction and upgrading program.

Bridges

Extensive repairs to stringers, crossties, deck, wheelguards and handrails were completed on Cottonwood Bridge No. 2.

McKnott Bridge was replaced with a new precast concrete structure.

Ollie Bridge was replaced with a new timber structure.

Terry Creek Bridge was replaced with a new timber structure.

Maintenance repairs were undertaken on several other bridges in the district.

Ferries

The reaction ferry at Marguerite was in operation from May 30, 1982 to November 17, 1982. The aerial cage ferry was used during the winter months.

DAWSON CREEK DISTRICT

Roads

Maintenance: March was warm causing an early breakup. The weather then turned cold and wet, and by the end of April some areas expended 15% of their 1982/83 snow removal budget. All gravel and dirt roads suffered. Dry weather followed and crews were able to restore the surface on most roads. July brought heavy rains to the southern portion of the District causing a large amount of damage. The northern and eastern portion of the District was not affected. The remainder of the summer had frequent showers but was not sufficiently wet to affect maintenance or construction.

Staffing problems and labour disputes resulted in low completion rate for summer maintenance activities.

The winter of 1982/83 starting during mid-October, however, was mild and dry. Frequent weather changes caused normal to high sand and chemical use. During February and March some summer activities were undertaken to keep shift crews busy. March was dry with stable weather. Consequently, the fiscal year ended with some surplus sand and salt, except along the Northeast Coal access where snow showers made roads slippery and a higher use of sand was necessary.

Construction: Most of the District day labour program was directed into gravelling with 28 km gravelled, 1.51 km regravelled, and 10 km constructed or reconstructed. 7.65 km of Schedule II highway was fenced.

Day labour works continued on the Heritage Highway Northeast Coal access with 25 km logged, cleared and grubbed. Also, major base repairs were compiled on five km of this highway.

In preparation for paving during 1983/84, three km of base gravelling were completed.

Several contracts were awarded and partly completed, primarily on the Northeast Coal access road.

Bridges

The Dawson Creek District bridge crew completed one new bridge, Tremblay Bridge No. Q7143, 17.5 linear metres, and reconstructed and widened Pingel Creek Bridge No. Q7135, 35.3 linear metres. Also, approximately forty-one District bridges had varying amounts of maintenance completed including inspection and washing.

Ferries

Clayhurst Ferry commenced operation March 29, 1982 and operated steadily until January 8, 1983. On January 25, 1983 it was interrupted by cold weather and ice and was removed for the winter.

FORT ST. JOHN DISTRICT

Roads

Maintenance: Spring arrived late in the District and runoff was heavy due to large accumulated snow-packs. The only major damage caused by runoff was the washing out of twin 5.2 m diameter multiplate pipes at d'Easum Creek on the Liard Highway. Road restrictions were later than usual and were in effect from April 19 to June 7. The spring and early summer were quite dry causing large demand for dust control. This situation was eased by an extremely wet August. A wet period in late fall caused many roads to freeze-up in a rutted condition. However, the winter was very light with only moderate snowfall and minimal drifting. Although the forest industry locally was reasonably active, the oil industry was very quiet, resulting in much less heavy traffic than experienced a few years ago. A new signing policy for the Alaska Highway resulted in many additional tourist information signs being erected along the route. This coincided with the 40th Anniversary of the completion of the highway.

Construction: There was very little construction undertaken during the summer. Projects were started on May 27 and continued to November 7. Crushed granular base was applied to 26.56 km of roads in the Montney-Rose Prairie areas in preparation for paving. The new 1.0 km alignment on Highway 29 at Deep Creek was completed and opened to traffic. In conjunction with this project, 1.50 km of passing lane was completed on the hill rising up from Deep Creek. 49.88 km of road was regravelled. In March, over 100,000 m^3 of gravel was hauled from sources inaccessible during summer months and stockpiled at strategic locations. In addition, clearing of right-of-ways for both the approaches to the proposed Fort Nelson River Bridge and the proposed road connecting Buick Creek and the Alaska Highway was completed.

Bridges

A new 40 m three-span concrete stringer bridge was constructed in early winter to replace the washed out culverts at d'Easum Creek on the Liard Highway. Cust Bridge was replaced with a multiplate pipe-arch. Nurnberger Bridge was replaced with a new wooden structure.

Buildings

A new salt shed was constructed by the bridge crew at the Rose Prairie Yard. An addition to the bridge crew's shop was completed to provide a work and storage area for the electrician now posted to Fort St. John.

Ferries

The high operating cost and unreliability of the hovercraft at the Fort Nelson River precipitated the decision to opt for a return to the tug and barge system used before. A contract for the supply and operation of a tug to push a Ministry barge was awarded, and resulted in a near flawless ferry service. The hovercraft was destroyed by a fire started by an engine room heater on November 8. It has since been disassembled and moved to Pouce Coupe for storage.

VANDERHOOF DISTRICT

Roads

Maintenance: Below normal snowfall combined with above normal temperatures during the winter of 1982/83 resulted in below average winter repairs.

Calcium chloride was applied by the district and supplier with good retention throughout the summer.

Machine brushing received extra attention in all foreman areas allowing the district to catch up on its brushing program.

Minor betterments in all four foreman areas benefitted the Ministry and general public in that five collector roads and three minor roads received attention in the form of ditching, regravelling, brushing and clearing right of way.

An extensive pavement patching and cracksealing program is underway as mild winters over the past three years have severely affected most paved surfaces.

Construction: A moderate construction program during 1982 resulted in work continuing on the new Nechako River crossing where road bed construction was completed and 0.75 m of gravel was applied to the entire length of 7.5 km. Road was opened to traffic for the 1982 Labour Day weekend, also two farm roads received extensive right of way clearing and 5.21 km of right of way fencing.

Fencing of Schedule II highways resulted in 6.5 km of fencing while 0.214 km of guardrail was installed, completing both programs for this fiscal year.

Bridges

Forty-seven structures received maintenance attention which included, washing, repairing decks, railings, wheelguards and ballast walls.

Fifty-mile log bridge on the Germansen Landing Road was replaced by a new nine metre concrete box stringer bridge as well as Cottonwood Bridge.

Major repairs to Nechako River Bridge, Vanderhoof, were initiated with repairs to continue in 1983/84.

The new Nechako River Bridge and overhead was opened to traffic in September, 1982.

Mining Roads and Trails

Road maintenance was carried out on the Omineca Mining Road from the Nation River to Moose Valley. 18 bridges received maintenance attention and two bridges were replaced with new structures.

Winter maintenance on the Omineca Mine Road from 0.00 to 147 km was carried out with one ministry 4-ton plow truck and one hired grader as and when required.

MCBRIDE DISTRICT

Roads

Maintenance: Heavy snowfalls and subsequent spring runoff caused the District to start the year with extended winter shifts, extensive culvert maintenance and installation program along with the ongoing ditching program.

The annual dust suppression and road stabilization program was relatively successful and many of the major side roads were retreated.

A very light snowfall with above average temperatures kept the winter crews busy applying sand and chemical to keep the roads in a safe condition for the travelling public. Low snowfalls resulted in frost leaving the ground early resulting in minor material slides at Red Pass and Blue River.

Construction: Approaches were constructed to the new multiplate at Hankins Creek on Eddy Road No. 552 replacing a single lane log stringer bridge. 1.6 km of Barnett Road was reconstructed and prepared for gravel. Topsoil was stockpiled and dressed along fill slopes in compliance with Agricultural Land Commission guidelines.

The District carried out 11.2 km of regravelling along major school bus routes in the District including Eddy, Old Tete Jaune, 13th, 17th, Aspen and Ash loop.

Bridges

Bridge crew activities were diverse this year from routine bridge cleaning and deck repair to the erection of a (5050 mm x 3330 mm) multiplate pipe arch.

The multiplate pipe arch, installed into the creek bed of Hankins Creek replaced a single lane wooden log structure. To prevent lateral movement of the adjacent railway trestle, water pressure was monitored by pneumatic piezometers installed by the Geotechnical Branch and monitored during the staged construction.

Completion of the Tete Creek Bridge was also on the bridge crew's list of activities. The completion of pile driving and cap welding was followed by the placement of the two 15.2 metre spans complete with galvanized posts and flexbeam rail.

The temporary Bailey bridge constructed as a detour will be removed in 1983.

WILLIAMS LAKE DISTRICT

Roads

Maintenance: Spring breakup again caused only minor problems in spite of a normal winter snowfall. Establishment of road restrictions was done with good cooperation of the logging industry. Spring flooding was minor except for washouts on the Haggens Point Road between Horsefly and Quesnel Lake where emergency repairs were effected. Summer maintenance was influenced by one of the wettest seasons on record. Emphasis on drainage increased while less dust control measures were needed. Both fall and winter were exceptionally dry with snow removal minimal. Milder weather creating icing conditions which required the use of considerable sand and chemicals.

Construction: Major works were carried out on 24 km of road with emphasis on Chilcotin-Bella Coola Highway between end of pavement at top of Lee's Hill and Alexis Creek. This work will continue into the next fiscal year in preparation for paving. At Redstone a bypass of the small community was completed eliminating a congested area.

On Highway 97 left turn slots were completed at Mission Road and the 150 Mile School.

Other works continued existing program on Horsefly and Likely Roads.

Bridges

Lessard Bridge on Dean River Road north of Anahim Lake was completed on this new road to provide service to outlying ranches. A new precast concrete stringer span at Anahim Creek was started to replace an old wooden pile trestle. Material was acquired for new bridges at Betty Creek on Dean River Road and at Dean River to serve a new major gravel source, Towdyston Pit. Major repairs were carried out to the Alexis Creek, Hagensborg, Likely and Hudgens bridges. Forty-eight other bridges received repairs and cleaning.

Buildings

British Columbia Buildings Corporation completed the new shop and yard at Hagensborg providing a much improved service for Bella Coola Valley.

REGIONAL REPORTS

REGION 5

(D.P. Doyle, P. Eng., Regional Director Highways, Terrace)
Prince Rupert, Terrace, Dease Lake,
Smithers and Burns Lake Districts

PRINCE RUPERT DISTRICT

Roads

Maintenance: Our maintenance crews continued work on ditching, flood control, gravelling and brushing throughout the year. A milder winter in most areas was reported this year but crews were kept busy controlling icy conditions which resulted from the wetter than normal winter.

Construction: Gravelling was continued on Highway 37A from Surprise Creek to Meziadin Lake in preparation for future paving.

A multiplate culvert was installed at Rufus Creek replacing the existing Bailey bridge. Work was started on another large multiplate at Cousins Creek Bridge as well.

The approaches for Bear No. 2 Bridge on Highway 37A were also started this spring.

In Prince Rupert, an intersection was constructed to the Arterial for Prince George Street. Further work was done to reconstruct access to the Butze Rapids Viewpoint.

On the Queen Charlotte Islands a new quarry development was completed on the upcoming erosion control program for the area between Tlell and Skidegate Landing.

Bridges

Routine maintenance was carried on throughout the District this year. The emphasis was placed on redecking and structural repair to the numerous timber bridges.

Buildings

A storage shed was constructed in Meziadin Camp and preparatory work was done on a sand and salt shed for the Stewart Yard.

Ferries

The M.V. Kwuna carried approximately 58,917 vehicles and 50,746 passengers between Alliford Bay and Skidegate Landing.

Garages

The four shops had a very busy year but managed to remain accident free.

TERRACE DISTRICT

Roads

Maintenance: An extensive machine patching and crack sealing program was undertaken on Yellowhead Highway 16.

Both hand and machine brushing programs continued on area roads.

Dust control using flake calcium chloride was carried out on side roads.

A below average snowfall in 1982/83 resulted in minimum avalanche activity. The winter of 1982/83 also saw great variations in temperature resulting in very icy conditions and calibrated salting.

Construction: Clearing and rock work commenced on 22 km of the Kalum Lake Road from Glacier Creek to Greenville.

In preparation for paving, upgrading of 26.5 km of Thornhill streets was nearly completed. A dust pallative was applied.

The redesign and paving of the Ocelot Intersection was completed.

Bridge approaches to Thornhill Bridge were completed.

Drainage improvements on Queensway Drive completed.

Riprapping the Skeena River from Telegraph Point to the District Boundary on Highway 16.

Bridges

Construction of the Morrison Creek and Glacier Creek bridge was completed.

Box girders were placed on the Thornhill Bridge.

Surfacing of these bridges is slated for 1983/84.

Major foundation repairs were completed on Thornhill (Queensway) Bridge.

Removal of old structures continues.

Buildings

A sand shed was constructed at the Salvus Camp. Extensive repairs to the salt and sand sheds in Thornhill was undertaken.

Ferries

The Usk Ferry across the Skeena River east of Terrace saw an average year for maintenance. A new and larger motor, along with another renovations to the aerial Ferry was completed.

Other

A complete new weigh scale excluding the scale building was carried out by the bridge crew. Paving of the approach lanes was done by District contract.

DEASE LAKE DISTRICT

Roads

Maintenance: Spring breakup and frost heave action were noticeably lower this year as a direct result of drainage improvements undertaken by area crews. An extensive program of dust suppression and surface stabilization was again carried out covering 871 dust sites, totalling 145 km of main highway. Minor betterments undertaken in six foreman areas concentrated heavily on hand and machine brushing, regravelling, inspection and cleaning of all large diameter multiplates along Highway 37.

District crews concentrated heavily on 12 major activities in the maintenance and upkeep of the highway corridor. Right-of-way cleaning and burning was completed on 28 km of the Atlin Highway, 10 km of the Cassiar Access Road, eight km of Highway 37 and two km of the Telegraph Creek Road.

A very dry summer resulted in an extraordinarily high fire hazard throughout the District. Maintenance personnel were called upon to assist forestry crews in the suppression of four major fires, one of which resulted in a temporary road closure of Highway 37 at the Cottonwood River Bridge.

Construction: Two major base strengthening 19 mm surfacing projects were completed on the Cassiar Highway. A 20.7 km section from Mud Hill to the Yukon Border received minor realignment, grading revisions and 15 cm of 19 mm crush. 26.54 km of the Cassiar Highway from Gnat Lake to the Tanzilla Bridge also received 15 cm crushed aggregate for base strengthening.

The intersection of the Atlin Highway and Surprise Lake Road was completely reconstructed including right turn lanes. This work also involved reconstructing 1.44 km of road from the Surprise intersection of the O'Donnal River Road. Major drainage improvements and 19 mm surfacing was completed on 3.44 km of the Atlin streets.

Bridges

Annual maintenance consisting of washing, bridge rail repair, cross-tie replacement, redecking, and guardrail repair were carried out on 25 bridges in the District. Two bridges in Telegraph Creek were rebuilt which involved placing new log stringers, sills, caps, decks and wheelguards. The Glacier Creek bridge was replaced with a five metre diameter multiplate. Major renovations were undertaken on the Burrage River Bridge. This work involved changing the triple single, cord reinforced Bailey bridge to a quadruple single Bailey bridge. With the assistance of the Burns Lake bridge crew this work was completed by constructing the quadruple onto the existing structure and moving both over the Burrage River. Emergency repairs were undertaken on the Tanzilla Bridge when a motor vehicle accident and fire caused extensive damage to a portion of the deck and six inside Bailey panels. The District Bridge crew erected a 28 m, triple single Bailey bridge across the Iskut River to allow Forestry suppression crews access to one of the largest fires in the area; this structure was removed in October after this fire was successfully contained.

Buildings

1982 saw the completion of a new fuel shed at Good Hope Lake; a new foreman's residence at Telegraph Creek, a new fuel shed in the Dease Lake yard and a new District Office. In addition to this, the British Columbia Buildings Corporation completed the installation of a new generating system in the Good Hope Lake shop and new lighting for the Dease Lake shop. Finishing work was completed inside the tire storage shed at Dease Lake which involved lighting and construction of a storage loft.

SMITHERS DISTRICT

Roads

Maintenance: The combination of cooler weather and much higher accumulation of snow during the spring of 1982 produced an even rate of melting. With the exception of more rockfall occurring in the western part of the district, breakup was quite mild.

The weather cooperated with most maintenance activities up until July. At that point the District patching program was somewhat hampered due to rain.

This year, increased emphasis was put into machine patching, most of it east of Smithers.

Machine brushing was also given added emphasis, particularly in the Hazelton and Kitwanga Areas.

The timely application of calcium chloride, coordinated with the first grading in the spring, produced lasting results. Grading costs were reduced significantly.

The first snow this year was on October 28, 1982. Although the total accumulation was somewhat less, the frequency of snowfalls was much higher. This led to higher than normal usage of sand and salt.

Winter passed fairly quickly with the result that the District was able to do some minor grade construction and gravelling in February and March.

Construction: Much attention was again focused on the Babine Lake Road, as well as the right-of-way having been cleared and grubbed from Doris Lake to the Switch Backs near Smithers Landing; surface aggregate was applied from km 55 to km 56.5. A new concrete box beam bridge and approaches were also constructed at the outlet of Doris Lake.

The shoulder of the Smithers Arterial between King and Queens streets was widened and paved. As well, no-post guardrail was placed in this area.

The slope failure repairs on the Cassiar Highway at Kitwancool were completed with minor betterment funding. Other betterments consisted of the upgrading of secondary roads in the Smithers and Hazelton areas.

Intersection lighting was provided at the Cassiar-Yellowhead Highway Junction and new traffic lights were installed at the Queen Street-Yellowhead Highway intersection.

In all, between fencing contracts and materials supplied to farmers to undertake their own fencing, about 25 km of right-of-way along the Yellowhead Highway was refenced.

Bridges

All bridges were again given a thorough inspection. Inspection of the larger permanent bridges was greatly eased by the use of the "Servi Lift" provided by Region 1. Some major tasks were performed by the bridge crew this year. Some of the more noteworthy were as follows.

1. Mill Creek Bailey bridge: Chord reinforcement was added to this bridge while in place.
   A good deal of ingenuity was exhibited by the crew members to accomplish this feat which resulted in a considerable saving in the reinforcement process.
2. Anlaw, Seaton, Boulder East and Trout Creek Bridge fence panels were cleared and regalvanized.
3. Kispiox Bridge was completely redecked.
4. The Quick Bridge approach spans were reconstructed.

BURNS LAKE DISTRICT

Roads

Maintenance: The long, cold snowy winter of 1981/82 kept the maintenance crew on their toes for a heavy runoff. However, no major problems were encountered.

One complete cycle for crack sealing along Yellowhead Highway 16, North Francois Highway and the Topley Landing Road to Granisle was completed.

Dust control was not a major problem as the summer weather tended to be wet.

Lignosulphonate was put out when required.

Construction: A piece of Colleymount Road, bordering Francois Lake had a section of guardrail placed in a potentially dangerous location.

The roads in Topley settlement had a graded aggregate seal applied.

Regravelling was carried in various locations throughout the District.

8.3 km of Schedule II fencing was undertaken along the Yellowhead Highway.

Snow Removal

The warmer than normal winter of 1982/83 with below average snowfalls and several freeze, thaw cycles resulted in greater use of abrasive and chemical materials. The many holders of ploughboards in the District has minor delays as a result of the Ministry equipment having to cope with the freeze thaw cycle.

Bridges

The logging truck traffic along McKilligan Road had an adverse effect on the Bulkley Bridge, resulting in the replacement of southern span. Brewer Creek Bridge was reconstructed.

Recurbing was carried out on both the Burns Lake Trestle and Pleasant Valley Bridge.

Ferries

A very busy year was experienced by the Omineca Princess, on the Francois Lake Ferry route.

The "dangerous cargo" runs were eliminated as the distance across the lake is less than three km.

Francois Lake did not freeze between the terminals this winter.

REGIONAL REPORTS

REGION 6

(B.A. L'Hirondelle, P. Eng., Regional Director Highways, Nanaimo)
Nanaimo, Saanich, Port Alberni and
Courtenay Districts

NANAIMO DISTRICT

Roads

Maintenance: All area foremen achieved acceptable goals in maintenance activities. The minor betterment program was geared to upgrading roads into heavily built-up areas and providing needed widths for pedestrian shoulders. A sealcoating program resulted in revitalization of a number of side road pavements that were showing signs of deterioration.

In the Village of Shawnigan Lake a number of drainage problems were corrected and the entire road drainage system checked and culverts cleaned and renewed where necessary. A very mild winter resulted in continued maintenance activities throughout the winter.

Construction: Day labour construction covered complete reconstruction on Riverbottom Road 2.0 km; Berry Point Road 1.0 km, reconstruction and paving; Koksilah Road 1.0 km, widen and recap pave; Lover's Lane, reconstruction and pave 1.0 km. Wheelchair ramps were constructed at major intersections on Trans Canada Highway through the City of Nanaimo. Notable minor betterments were reconstruction of a portion of Rugg Road; reconstruction and paving of the following roads: Long Lake Road, and Parker Road; recap paving on Holden Corso Road and portion of South Road, Gabriola Island. Rock riprap was placed along the Mill Bay Road to correct a severe erosion by wave action from the sea.

Bridges

Bonsall Bridge on the Crofton Road was replaced by a new type Easy Bridge. This is a 24 hour per day haul road and this type of bridge was installed with very minor inconvenience to traffic.

Nagle Bridge on the Shawnigan Road was replaced with concrete box beam stringers and a very sharp corner on the road improved.

SAANICH DISTRICT

Roads

Maintenance: An exceptionally mild winter generated a large savings in snow removal costs which enabled the district to convert to maintenance activities. The two major storms occurred at high tides creating erosion and log debris problems on roads adjacent to the ocean. District contracts were tendered for landscape maintenance, janitorial services at rest stops and for the supply of gravel patch material to the Gulf Islands. Tenders on behalf of the Traffic Branch were called for signals on Highway 14 at Metchosin Road and at Jacklin Road.

Notable minor betterments were the chip sealing of 36 km of district roads, and plant mix recap on eight km; traffic islands and a left turn slot were constructed on Highway 1A at Wilfert Road. The curve over the abandoned railway line at Cooper's Cove on Highway 14 was superelevated and paved. 225 lineal metres of 18" guardrail on Highway 17 was replaced with 690 mm concrete guardrail. Subdivisions were down by 45% and permits by 23% which reflects the downturn in the economy. More new homes were constructed than lots created and will undoubtably affect lot values in 1983.

Equipment Fabrication: The shop manufactured 25 tailgate sanders and 20 were converted to electronic controls. Two propane 4-tons and 13 tandems were fitted with hydraulics, underbody plow mounts and front mounts. The shop continued the design and development of twin chain sand body units and other related modification kits for "quick change" and frame reinforcement components.

Construction: The district participated with the Municipality of Central Saanich in a landscape project in Brentwood Village. A small contract was called for completion of landscaping on Highway 17 at Ravine Way and a paving contract was tendered for levelling course on 12 km of the West Coast Road.

District forces constructed an acceleration lane and widening of Highway 17 between Keating Road and Tanner Road; a left turn slot was constructed on Highway 1 at Spencer Road and curbing and pedestrian facilities constructed on 4-Mile Hill on Highway 1A.

Bridges

The prestressed concrete box stringers were delivered and placed on Edwards Bridge and approaches constructed. A 33.5 m Acrow bridge was installed at Sombrio No. 2 replacing the log stringer span. The district drove piling and installed a Bailey bridge at Pete Wolf as a detour structure for the new bridge planned in 1983. The district applied a nonskid surface on three West Coast Road bridges using high float emulsion and 19 mm chips.

PORT ALBERNI DISTRICT

Roads

Maintenance: Brushing, ditching, gravelling and dust control were the dominant maintenance activities undertaken in the District. A total of 69 440 m of ditch was cleaned and constructed, and 160 ha of brush was removed from the right-of-way. Liquid calcium chloride and M & F Stabilizer were applied to 207 km of gravel road for dust suppression.

Rainstorms during the winter saturated the slopes and caused numerous slides; several on the Alberni-Tofino section of Highway 4 near Kennedy Lake closed the highway. Extensive flooding and erosion was experienced throughout the District. Bonnell Bridge on Highway 19 in Nanoose and French Creek Bridge required riprap protection.

Very little snowfall occurred, except in Sutton Pass area, Alberni-Tofino Highway 4, where 288 cm of snow was recorded. Two separate overnight storms deposited 50 cm and 67 cm of snow each.

Approximately 12 km of new roads were established in the District, most established through the new 4-lane construction Highway 19 Nanoose area.

Subdivision and permit activity continued to be strong. A total of 221 subdivisions were processed and 422 permits issued by regulatory staff.

Considerable time was expended with the restructuring of boundaries for the Towns of Parksville and Qualicum, and proposals for the Village of Coombs-Hilliers.

Construction: Day labour during the year consisted of completion of Deer Creek Bridge approaches and installation of 1 892 m of guardrail on the Alberni-Tofino Highway. Dorcas Point Road in the Parksville area was reconstructed and paved. Wembley, Chatsworth and Kenmuir Roads received extensive road and ditch construction. A total of 13.4 km of gravel road was paved and 4.4 km of road was recapped. McLean Road Bridge was reconstructed and a bridge was replaced with a culvert on Goodyear Road, both in the Parksville area.

COURTENAY DISTRICT

Roads

Maintenance: During the year, in addition to normal maintenance, emphasis continued to be placed on major brushing, ditching, gravelling, and pavement upgrading. The winter was very wet, particularly in February, when considerable flooding of District roads and highways occurred, resulting more in inconvenience than damage. An extensive landslide in December closed the Western Mines road for several days. Snowfall was light and the corresponding reduction in normal winter expenditures allowed for considerable upgrading work to be carried out during the winter and early spring. 61 km of District road were gravelled with pit run and/or crushed material. Considerable ditching and widening was carried out ahead of the gravelling program, much of the widening involving rock corners on the Holberg Road and on Cortes Island.

Construction: Widening of Highway 19 Courtenay to Black Creek commenced in late winter, work to be continued in 1983/84 with repaving by contract. 0.6 km of District road was paved, and 11.1 km was repaved. 1.0 km of new road was constructed and 3.2 km of pavement widening was carried out on local roads to serve pedestrian and bicycle traffic. The reconstruction of the intersection of Highways 28 and 19 was completed in early April. The approaches to the new Cluxewe Bridge were built and paved. A pile and sheeting wall was constructed on Kye Bay Hill to control road slippage, and a new log crib wall was built on Pidcock Road, Quadra Island, after a portion of road slid out.

Bridges

36 m of double-single chord-reinforced Acrow bridge was installed over the Tsolum River on Farnham Road. The Cluxewe Bridge was completed in early fall. One span at Brown's River Bridge was replaced with new log stringers, ties and deck. New ties and deck were installed in Nelson Bridge north of Campbell River, and the old Oyster River bridge had a new deck system installed. Saunders Bridge, Gold River had a new deck laid, with repaving of the approaches. Rotted sections of piling on Buttle Narrows, and Bay bridges were cut out and replaced by posts. Shot rock riprap was hauled and placed under and in front of the Oyster River Bridge south abutment to correct scouring. Cleaning, deck and rail repairs was carried out on district bridges as required. The 17th Street bridge was opened over 80 times to allow passage of fish and pleasure boats.

Ferries

The Region Six Ferries District continued to operate 12 certified vessels on the following nine routes:

Alert Bay-Sointula-Port McNeill	M.V. Tenaka
Campbell River-Quadra Island	M.V. Quadra Queen II
Quadra Island-Cortes Island	M.V. Nimpkish
Comox-Westview	M.V. Princess of Vancouver
Westview-Texada Island	M.V. North Island Princess
Buckley Bay-Denman Island	M.V. Kahloke
Denman Island-Hornby Island	M.V. A.J. Savoie
Nanaimo-Gabriola Island	M.V. Quinsam
Thetis Island-Kuper Island-Chemainus	M.V. Kulleet

The relief vessel M.V. Tachek was operated at Alert Bay, Quadra Island and Texada Island during the annual refits of the Tenaka, Quadra Queen II and North Island Princess and utilized as the second vessel at Quadra Island making 3,400 leg trips from mid-May to mid-September.

The M.V. Nicola was the relief vessel at Cortes Island, replacing the M.V. Nimpkish during her refit with the M.V. Klitsa as the replacement vessel for the M.V. Kahloke at Denman Island, the M.V. Albert J. Savoie at Hornby Island and the M.V. Kulleet at Thetis Island.

The construction of the M.V. Quinsam was completed in th spring and she made her inaugural run on June 15, 1982. The Quinsam with a carrying capacity of 70 vehicles and 394 passengers replaced the M.V. Quinitsa at the Gabriola Island-Nanaimo operation. The M.V. Quinitsa was loaned to the British Columbia Ferry Corporation and operated by their personnel on the Horseshoe Bay-Bowen Island and the Swartz Bay-Fulford Harbour routes.

The M.V. Sechelt Queen was removed from service on the Comox-Westview route and subsequently sold by public tender. Two vessels on loan from the B.C. Ferry Corporation, the Queen of Nanaimo and the Queen of Tsawwassen, operated on this route until October 27, 1982 at which time the Princess of Vancouver began service. The Princess of Vancouver with a carrying capacity of 138 vehicles and 700 passengers, was purchased from C.P.R. and underwent an extensive refit-redesign program prior to her inaugural run.

Normal maintenance was carried out at all terminals with major work on docks completed at Gabriola, Westview and Blubber Bay.

TRANSPORTATION POLICY

REPORT OF THE DIRECTOR OF TRANSPORT POLICY ANALYSIS

G.A. Clark

The Branch is responsible for developing and coordinating transportation policy for the Province. In addition, the Branch provides financial assistance for airport development and for services operated by the British Columbia Railway. Activities during the past year concentrated on regional transportation studies, railway passenger and freight services, aviation requirements, and port development in the Province. Liaison with federal agencies was also required on a number of programs that affect the Province but fall within federal jurisdiction.

The Vancouver Island Transportation Program was initiated in 1980/81 with a review of economic prospects for Vancouver Island and a study of possible sites for loading coal onto barges or ships. In 1982 the B.C. Research Council was commissioned to develop forecasts of passenger travel and freight traffic to, from, and on Vancouver Island for the next 20 years.

The Branch completed an assessment of road, rail and port requirements in northwest B.C. as one part of an inter-ministry study of development potential in the region. This work identified the most economic means of transporting coal and mineral concentrates which might be produced in the region over the next 20 years.

With the Canadian Transport Commission, Transport Canada and the prairie provinces, the Branch sponsored a study of railway capacity in the lower mainland. This study dealt with the railways' abilities to handle traffic increases that are expected over the next decade. A number of railway matters that fall under federal jurisdiction were also monitored or dealt with. These include: railway applications to abandon lines in British Columbia; proposed changes in the regulation of railway rates; movement of dangerous goods by rail; cutbacks in passenger service; upgrading of the CNR Northline from Prince George to Prince Rupert; CN's double-tracking project in the Fraser Canyon, and approvals for the CP tunnel project in the Rogers Pass. Proposals to change the Crow Rate were monitored, and representations were made to the federal government concerning changes in the Crow Rate and the need for increased railway capacity in British Columbia.

The Branch assisted in the coordination of the Urban Transportation Assistance Program, under which a total of $24.6 million in federal funds will be spent on grade separation projects in British Columbia over a six-year period ending in March, 1984. The Branch also made representations on the future of the program, and the need for increased funding to keep pace with growth in railway traffic in the Province.

Financial assistance was provided to the British Columbia Railway for uneconomic services which are maintained in the public interest. A total of $7 million was paid to the railway for passenger services and branchline operations.

Current planning for future traffic increases on the rail line to Roberts Bank was monitored for possible effects on communities, road and highway traffic, and the railway system.

With Transport Canada, the Branch co-sponsored a study of port and harbour facilities on the coast of British Columbia. Under this program, consultants investigated facilities in more than 200 harbours, identified shortcomings in existing facilities, and recommended changes to meet current and future requirements. The Branch monitored and acted on a number of other marine issues which are within federal jurisdiction, including major revisions in port legislation, increased autonomy for the ports of Vancouver and Prince Rupert, port development at Roberts Bank and Prince Rupert, and proposals for change in shipping policy and regulation. Marine transportation to the mid-coast region was investigated as a result of changes n community requirements and economic conditions.

The Canadian Transport Commission was briefed on aviation requirements in the Province. The Branch also intervened in hearings before the CTC and maintained close liaison with Transport Canada on priorities for airport improvements and navigational aids in British Columbia. Proposed changes in federal policy, regulation and standards in the aviation field were evaluated and representations were made to Transport Canada to ensure that conditions and requirements in British Columbia are recognized.

Other submissions to Ottawa dealt with air bilateral agreements between Canada, Britain and the United States; federal fuel surcharges; double taxation on airline tickets; and carrier licensing matters.

Through the Air Transport Assistance Program, the Branch provided financial assistance for improvements to community airports throughout the Province. In 1982/83, the Program provided $1.55 million in support of 15 projects. These projects are outlined in the following table.

AIR TRANSPORT ASSISTANCE PROGRAM

Grants Approved

Airport Location and Applicant for Aid	Approved Project Items	Grant
Atlin Board of Trade	Continue earthwork in development of realigned runway	$300,000
Bella Bella Denny Island Airport Society	Construct 3 km public road to connect new airstrip to Shearwater Village	$350,000
Chetwynd Village	Purchase and install hazard beacon system and non-direction beacon	$150,000
Courtenay City	Assist with Installation of floatplane dock adjacent to existing airstrip	$6,000
Fraser Lake Village	Perimeter fencing	$25,000
McBride Village	Upgrade surface drainage system	$20,000
Merritt City	Complete basework for south-end extension Complete north-end runway extension and pave	$300,000 $50,000
Oliver Village	Enlarge apron and assist with installation of utilities	$12,000
Osoyoos Vilage	Complete site survey and finalize design for proposed runway	$15,000
108 Mile Cariboo Regional District	Geotechnical investigation in anticipation of asphalt overlay on runway	$10,000
Pitt Meadows Airport Society	Assist with costs of investigation into feasibility and demand for expansion	$2,000
Salmon Arm District	Purchase and installation of lighting system and tree clearing	$250,000
Tumbler Ridge Municipality	Geotechnical investigation, site survey and design for new airstrip	$30,000
Valemount Village	Construct parking apron, tree clearing	$30,000

REPORT OF THE DIRECTOR OF ENGINEERING INSPECTION

F.H. Christensen, P. Eng.

This Branch is the regulatory authority administering the Railway Act and the Pipeline Act. Responsibilities include processing construction applications, inspecting pipelines, railways, aerial tramways and certifying operating personnel for railways and aerial tramways.

In addition, there is representation on several Canadian Standards Association Committees and Sub-Committees including four Pipeline Committees and the Passenger Ropeways Committee, plus the Environment/Resource/Land Use Working Committee of the Energy Project Co-ordinating Committee and the Crossing and Signals Technical Working Committee.

Projects, new procedures or events of an exceptional nature in 1982/83

(a) Aerial Tramways

- Continued review of snow safety plans for aerial tramways located in areas of snow avalanche potential.
- Enhanced the computer-based data storage and retrieval system.
- Regulations revised to include rules concerned with skier safety.

(b) Pipelines

- Started the review of plans and specifications for the upgrading of the dyking at the existing liquid natural gas (L.N.G.) peak shaving plant at Tilbury Island.
- Administrative agreement concluded with Ministry of Labour that all compressed natural gas (C.N.G.) dispensing facilities would come under their jurisdiction.

(c) Railway

- Initial implementation of three new inspection programs:
  - Dangerous Commodities
  - Train Operations
  - Accident Investigation
- Monitoring of construction was continued on the British Columbia Tumbler Ridge branch line. Drawings of additional structures on the branch line were reviewed. Development of standards for electrified railways is underway.
- Review of drawings and monitoring of construction for major expansion or new construction of seven Industrial Railways.
- Began a major detailed review of the proposed Canadian Rail Operating Rules (CROR) for intra-provincial Common Carriers, and the new Location, Identification and Control (LIC) system on the British Columbia Railway.
- A review of the road/railway crossing criteria for unprotected (unsignalized) was started to enhance crossing safety.

Aerial Tramway Industry

Scope of Operation - 95 areas

Installations	Existing	New	Modified	Total*
Triple Chairlifts	23	1		24
Double Chairlifts	45		2	45
T-Bars	69			69
Platter Lifts	5			5
Handle Tows	43	4		47
Rope Tows	55			55
Reversible Tramways (Double)	3		1	3
Reversible Tramways (5 Industrial and 5 River Crossings)	10			10
Gondolas	2			2
Total	255	5	3	260

* Note: At present 260 installations appear in our records and of those, 47 were not operating for various reasons during the past year.

Inspections

Total Locations	95
Annual Inspections	213
Acceptance Tests for New Installations and Modifications	4
Operational Inspections (approximately)	200
Progress Inspections	20
Modifications and Improvements Inspected	3
Total Directions issued	1,080
Average Number Directions per Installation	5.07

Major Aerial Tramway Accidents

1.	Skier Error	19
2.	Component Failures - which include shaft and coupling failures, failure of motive power and failures of the safety circuit equipment	16
3.	Displaced Components - which includes three chairlift deropements, eleven T-bar deropements plus items such as a chairlift grip finger missing and a chair being pulled from the haul rope after being blown over the communication cable	16
4.	Operating Error	4
5.	Power Source Failure - which resulted in evacuation under auxiliary power	6
6.	Others of minor consequence	17
	TOTAL	78

7. Seven accidents resulted in chairlifts being evacuated using ropes and Tees.
8. Two Major Work Accidents; one resulting in death and the other in the loss of the use of the legs - both accidents occurred during maintenance work.

Railway Industry

Railways under the jurisdiction of the Ministry of Transportation and Highways:

British Columbia Railway
British Columbia Hydro and Power Authority Railway
British Columbia Harbours Board Railway
Byron Creek Collieries Ltd. Railway
B.C. Coal Ltd. Railway
Vancouver Wharves Railway
Northwood Pulp and Timber Ltd. Railway
Canadian Forest Products Railway
Crown Zellerbach Logging Railway
and some 54 other Industrial Railways, plus 5 Recreational Railways

Scope of Operation

Railway Trackage	
B.C. Railway Mainline	2,061 km
Yard	597 km
Trader	220 km
B.C. Hydro Railway Mainline	126 km
Yard and Spur	103 km
B.C. Harbours Board Railway	38 km
Industrial Railways	383 km
TOTAL	3,528 km
Major Rail Yards	15 yards
Motive Power	
Locomotives	190 units
Other	74 units
TOTAL	264 units
Bulk Storage Facilities	47
Road Crossings	
Public	402
Industrial	62
Farm	228
Access	252
Signalized	90
Applications and Certifications Processed	
Track	10
Bridges and Other	15
Road Crossings	29
Automatic Signalizations	2
Bulk Storage Facilities	0
Pipe Crossings	22
Operating Personnel	84
Inspections	
Locomotive and Other Motive Power	195
Major Railway Yards	9
Industrial Railways	16
Train Operation and Occupational Safety	4,700 km
Industrial Track Inspected	250 km
Road Crossings	19
Occupational Safety (Fixed Facilities)	11
Dangerous Commodities Inspections	
Bulk Storage Facilities	28
Loading/Unloading Facilities	9
Yard-Railcar	20
Leaking Cars	18
Derailments	4
Accidents Reported and Investigated	
Common Carriers	66
Industrial Railways	12

Pipeline Industry

Present Scope

Major transmission pipelines	2,141 km
Gathering and flow and other transmission lines	7,622 km
Compressor and pumping stations	258
Liquid natural gas plants	1

Applications Processed	
Pipeline	292
Compressor and Pump Stations	23
Crossings	362
Regulator Stations	18
Compressor and Pump Stations Constructions	8 (11,285 kw)
Length of pipelines constructed	
Gas	28 km
Oil & multiphase	29 km
Water	7 km
TOTAL	64 km

Inspections	
Pipeline field inspections	451
Pump and Compressor Station inspections	103
Pipeline failures reported and investigated (see list)	34

PIPELINE FAILURES IN BRITISH COLUMBIA FOR PIPELINES UNDER THE PIPELINE ACT

Date	Company	Location	Commodity	Reason	Volume Spilled m^3
82-04-05	Chevron	Ekwan	Gas	Dehydrator fire	
82-04-13	CDC	Weasel	Oil	External corrosion	0.1
82-04-22	Esso	Boundary Lake	Gas	Internal corrosion	
82-04-30	Hudsons Bay	Buick Creek	Gas	External corrosion	
82-05-10	Texaco	Boundary Lake	Oil	"A" battery corrosion	1.0
82-05-13	Gt. Northern Pet.	Sunrise	Gas	External corrosion	
82-05-17	Petro-Canada	Peejay-Beavertail	Gas	Weld cracked from frost heave	
82-05-20	Columbia Nat. Gas	Fording	Gas	Struck by road grader	
82-05-27	Suncor	Eagle	Oil	Defective union on relief valve	8.0
82-06-18	Petro-Canada	Peejay	Oil	External corrosion	4.0
82-06-26	Texaco	Nig Creek	Gas	Deyhdrator fire	
82-07-07	ICG	Fort St. John	Gas	Defective gate valve (valve packing)	
82-07-12	Petro-Canada	Kotcho Lake	Gas	External corrosion	
82-07-22	Petro-Canada	Peejay	Gas	—	
82-08-04	Petro-Canada	Jedney	Gas	Pretest pipe (temporary sleeve)	
82-09-24	B.C. Hydro	Burnaby	Gas	Bulldozer blade struck purge nipple	
82-10-13	Petro-Canada	Peejay	Oil	External corrosion	30.0
82-10-20	Can. Hunter	Town	Gas	Internal corrosion	
82-11-08	CDC	Weasel	Water	External corrosion	35.0
82-11-11	Suncor	Blueberry	Oil	Frozen nipple	2.5
82-11-13	Norcen	Peejay	Oil	External corrosion caused by scrape on pipeline during construction	32.0
82-11-14	Inland Nat. Gas	Summerland-Westbank	Gas	Struck by road grader	
82-11-15	Esso	Boundary Lake	Water	Defective Drisco liner	
82-12-07	Esso	Boundary Lake	Water	Defective Drisco liner	
82-12-07	Norcen	Boundary lake	Oil	External corrosion	4.0
83-01-17	Suncor	Stoddart	Oil	Valve froze then split	14.3
83-01-25	Petro-Canada	Peejay	Oil	Corrosion	100.0
83-02-04	CDC	Weasel	Water	Internal corrosion	1.0
83-02-15	Scurry-Rainbow	Eagle, E.	Oil	Failure of E.S.D. valve	95.4
83-02-16	Norcen	Taylor	Diesel Fuel	External damage from back hoe tooth	Trace
83-03-11	Dome	Laprise	Gas	Corrosion due to buckle in pipe	
83-03-21	Petro-Canada	Kotcho	Water	Internal corrosion	30.0
83-03-24	Esso	Boundary Lake	Water	—	15.9 m
83-03-30	Petro-Canada	Currant	Oil	External corrosion	1.0

Failures	
Gas line failures	15
Oil line failures	13
Water line failures	6
TOTAL	34
Volume of oil spilled	291.3 m^3

MOTOR CARRIER BRANCH

The activities of this Branch are recorded in the Annual Report of the Motor Carrier Commission published under separate cover.

MOTOR VEHICLE

MOTOR VEHICLE DEPARTMENT

The Motor Vehicle Department is responsible for the licencing and registering of motor vehicles, mechanical inspection and safety standards, monitoring of vehicle weights and dimensions, the determination of ability and fitness of persons to operate motor vehicles, and the support and development of road user and driver improvement programs.

The Department comprises three branches with direction responsibility to the Superintendent of Motor Vehicles. These are Administration and Safety Branch, Vehicle and Drivers Licence Branch, and Standards and Compliance Branch.

A brief summary of activities indicates that the total number of registered vehicles in the 1982 licence year was 2,667,700, an increase of 46,905 or 1.8 percent over the 1981 total.

Original driver licences issued up to December 31, 1982 were 81,997, a decrease of 23,025 or 28 percent less than the 1981 total. The total number of licensed drivers as of December 31, 1982 was 2,079,969, an increase of 35,248 or 2 percent over the 1981 total. There were 1,182,641 male drivers and 897,328 female drivers.

The Motor Vehicle Inspection Program inspected 620,842 vehicles with 146,001 or 23.5 percent rejected during the year to December 31, 1982.

REPORT OF THE DEPUTY SUPERINTENDENT OF MOTOR VEHICLES

P.K. Jackman

The Deputy Superintendent of Motor Vehicles directs the activities of the Vehicle Licence Division and the Drivers Licence Division.

VEHICLE LICENCE DIVISION

The Vehicle Licence Division is responsible for the licencing and registering of motor vehicles, the issuance of permits, reciprocity agreements, the collection of revenue under the Motor Vehicle Act, Commercial Transport Act, Social Service Tax Act, Insurance (Motor Vehicle) Act, the Motive Fuel Use Tax Act, and the coordination of licence and insurance programs as they affect the Motor Vehicle Department.

The personalized number-plate program continued to receive wide public acceptance during 1982. At December 31, 1982 a total 15,495 applications had been processed.

The Vehicle Licence Division controls directly the issuing activity of 113 outlets throughout the Province, and indirectly the licencing function conducted through the Insurance Corporation's agency force that consists of approximately 660 offices. The 113 government related outlets are comprised of 15 Motor Licence Offices, 57 Government agents and 41 Motor Vehicle Department appointed agents. The 15 Motor Licence Offices are staffed with employees of the Motor Vehicle Department (Ministry of Transportation and Highways) while the government agencies are staffed by employees of the Ministry of Finance, but report to this Division for all motor vehicle issuance.

The Motor Vehicle Department appointed agents are appointed by the Department and consist of credit unions, municipalities and private businesses or individuals. Usually such appointments are made in remote areas of the Province or where the population does not warrant a Motor Licence Office or Government Agency.

VEHICLE LICENCES

The total number of vehicles licenced to December, 1982 was 1,821,696, an increase of 11,867 or .7 percent more than the 1981 total.

Passenger vehicles licenced totalled 1,159,554, an increase of 14,185 or 1.2 percent more than the 1981 total.

Commercial vehicles licenced totalled 436,370, an increase of 9,191 or 2.1 percent more than the 1981 total.

Motorcycles licenced were 34,185, a decrease of 10,264 or 23.1 percent less than the 1981 total.

Trailers licenced in 1982 totalled 191,587, of which 32,601 were commercial trailers and 158,986 were utility trailers.

FIELD SERVICE OPERATIONS

The Field Operation consists of:

Motor Vehicle Department Outlets

- Abbotsford
- Burnaby
- Chilliwack
- Surrey (formerly Cloverdale)
- Kamloops
- Maple Ridge
- Mission
- New Westminster
- North Vancouver
- Richmond
- Trail
- Vancouver - Commercial Drive
- Vancouver - Georgia Street
- Vancouver - MacDonald
- Victoria

Total Motor Vehicle Department Outlets	15
Total Permanent Staff	145

The difference between total licenced vehicles and total registered vehicles is due to the licence with owner concept, e.g., vehicles on dealers' sales lots are not required to be licenced. Some vehicles have been destroyed or removed from the Province but remain registered for six years or until notice is received.

Registered Vehicles at December 31, 1982

	1981	1982	Increase/ Decrease	%
Passenger Vehicles	1,573,482	1,589,574	16,092	1.0
Motor Homes	38,092	41,263	3,171	8.3
TOTAL PASSENGERS	1,611,574	1,630,837	19,263	1.2
Commercial Vehicles:				
Regular Commercial	562,980	580,480	17,500	3.1
(A) Farm Trucks	30,828	27,232	(3,596)	(11.7)
(F) Farm Tractors	963	760	(203)	(21.1)
(P) Prorate	3,231	3,620	389	12.0
(T) Logging	1,746	2,225	479	27.4
(X) Industrial	10,134	8,982	(1,152)	(11.4)
TOTAL COMMERCIAL	609,882	623,299	13,417	2.2
Commercial Trailers	44,658	47,508	2,850	6.4
Utility Trailers	268,113	270,292	2,179	.8
Motorcycles	86,568	95,764	9,196	10.6
TOTAL VEHICLES REGISTERED	2,620,795	2,667,700	46,905	1.8

Licenced Vehicles at December 31, 1982

	1981	1982	Increase/ Decrease	%
Passenger Vehicles	1,145,369	1,159,554	14,185	1.2
Commercial Vehicles:				
Regular Commercial	395,836	405,597	9,761	2.5
(A) Farm Trucks	21,325	21,346	21	.1
(F) Farm Tractors	383	353	(30)	(7.8)
(P) Prorate	2,809	2,641	(168)	(6.0)
(T) Logging	1,504	1,073	(431)	(28.7)
(X) Industrial	5,322	5,360	38	.7
TOTAL COMMERCIAL	427,179	436,370	9,191	2.1
Commercial Trailers	29,451	32,601	3,150	10.7
Utility Trailers	163,381	158,986	(4,395)	(2.7)
Motorcycles	44,449	34,185	(10,264)	(23.1)
TOTAL VEHICLES LICENCED	1,809,829	1,821,696	11,867	(.7)

DISTRIBUTION OF MOTOR VEHICLES

The following table provides information concerning the number of licences issued and their locality. This table cannot be regarded as an accurate population count of vehicles in the various parts of the Province as the owners move frequently from one area to another and vehicles are often sold to new owners residing in different localities than the previous owners. The table does, however, provide an indication of how vehicles are distributed throughout the Province.

Province of British Columbia
Motor Vehicle Population Statistics for Licensed Vehicles
Vehicles Licenced as of December 31, 1982

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Abbotsford	190	22,404	7,412	2,971	463	862
Agassiz	036	1,914	959	329	32	86
Alaska Highway	510	3,122	3,348	1,103	150	147
Aldergrove	191	7,719	3,933	1,327	297	292
Alvin	514	2	1	0	0	0
Armstrong	085	2,404	1,785	555	90	59
Ashcroft	042	1,571	1,240	392	37	74
Barriere	159	877	977	272	74	28
Bella Coola	083	443	682	106	24	12
Blue River	161	134	151	43	9	10
Boston Bar	044	337	250	67	8	26
Bralorne	046	71	106	14	0	6
Burnaby	103	68,812	17,329	4,913	4,131	1,726
Burns Lake	048	1,555	1,743	640	137	41
Campbell River	010	9,426	5,125	2,750	243	342
Cassiar Mines	182	334	407	100	9	35
Castlegar	123	4,690	2,336	1,032	69	78
Chase	050	2,710	1,935	757	78	58
Chemainus	017	1,745	972	444	61	57
Chilliwack	038	19,463	7,591	3,240	396	800
Clinton	052	583	673	182	48	22
Cloverdale	028	30,760	9,989	4,149	743	856
Courtenay	012	13,837	7,052	3,864	183	792
Cowichan	018	1,784	1,093	523	33	59
Cranbrook	125	7,806	5,184	1,962	678	224
Creston	127	3,797	2,725	995	139	142
Dawson Creek	167	5,440	5,384	1,380	444	118
Duncan	019	13,849	6,573	2,850	444	421
Elkford	516	2,350	1,910	702	22	82
Enderby	087	1,823	1,453	435	130	37
Fernie	131	4,561	3,495	1,101	197	159
Fort Nelson	181	1,218	1,586	316	150	64
Fort St. James	185	845	996	289	74	25
Fort St. John	169	6,405	8,056	2,047	761	200
Ganges	023	2,690	1,293	398	30	152
Golden	133	2,090	1,797	541	112	70
Gold River	016	709	412	241	5	39
Grand Forks	089	2,782	1,821	583	144	86
Greenwood	091	1,005	959	214	63	27
Gulf Islands	513	1,500	897	295	15	103
Haney	032	17,701	6,241	2,849	227	594
Hazelton	054	910	1,006	210	77	23
Hope	040	2,357	1,398	380	82	78
Houston	056	1,314	1,450	487	135	52
Hudsons Hope	186	1,548	1,795	456	158	59
Invermere	135	2,239	2,006	555	152	63
Kamloops	157	27,239	15,005	5,515	923	772
Kaslo	137	554	401	137	18	31
Kelowna	093	38,364	15,611	7,057	1,003	1,065
Keremeos	095	1,301	1,000	278	26	26
Kimberley	139	3,365	2,291	1,029	53	91
Kitimat	058	3,973	2,124	852	67	140

Province of British Columbia
Motor Vehicle Population Statistics for Licensed Vehicles
Vehicles Licenced as of December 31, 1982—Continued

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Ladysmith	021	3,526	1,794	789	28	133
Lillooet	059	999	857	201	44	68
Lytton	061	364	362	77	9	24
McBride	171	493	569	132	28	28
Merritt	063	2,727	2,257	845	126	107
Mission	034	9,561	3,880	1,386	114	319
Nakusp	141	806	818	330	32	41
Nanaimo	006	24,113	9,805	4,560	307	848
Natal	143	4	27	0	0	0
Nelson	150	6,353	3,008	1,157	109	112
New Denver	145	433	328	110	5	11
New Westminster Area	003	64,370	15,630	6,888	1,920	1,951
North Vancouver Island	515	6,776	5,064	1,612	89	359
North & West Vancouver	004	68,390	9,074	3,999	776	1,688
Ocean Falls	183	28	36	5	2	1
Oliver	099	2,833	1,663	562	56	67
100 Mile House	065	3,343	3,264	1,063	187	78
Osoyoos	100	2,170	1,198	383	52	50
Parksville	014	4,103	1,860	988	55	117
Penticton	112	16,569	6,980	2,946	363	520
Point Roberts, U.S.A.	512	1,787	1,101	161	32	107
Port Alberni	008	9,502	5,158	2,894	104	362
Powell River	175	6,453	3,448	1,958	136	350
Prince George	067	26,467	18,370	6,473	1,179	541
Prince Rupert	069	5,093	2,470	772	114	134
Princeton	114	1,639	1,382	476	57	89
Qualicum	015	2,952	1,352	682	32	76
Queen Charlotte	520	1,068	1,135	271	24	54
Quesnel	071	6,453	5,551	1,812	374	171
Revelstoke	116	3,245	2,495	864	151	107
Richmond	102	83,453	16,326	7,318	714	2,196
Riondel	147	124	79	41	0	1
Salmo	148	820	534	175	23	43
Salmon Arm	118	6,950	4,527	1,858	329	183
Sechelt	173	6,385	3,409	1,144	70	284
Sidney	025	9,414	2,665	1,309	75	298
Slocan	115	622	510	127	12	14
Smithers	073	2,870	2,674	795	156	67
Sooke	026	3,099	1,521	533	42	131
Squamish	177	3,562	1,810	528	91	157
Surrey	029	65,076	20,295	8,060	949	1,859
Terrace	075	5,316	4,058	1,282	129	188
Tofino	180	340	237	68	8	16
Trail	152	8,992	3,773	1,887	174	224
Ucluelet	179	587	448	211	30	35
Vancouver	002	190,574	36,709	7,118	4,914	4,486
Vanderhoof	077	2,685	2,784	849	204	71
Valemount	163	525	602	163	34	24
Vavenby	165	1,275	1,242	419	96	76
Vernon	121	17,991	9,800	3,701	548	413
Victoria	001	100,294	30,849	11,165	1,870	3,316
Wells	079	124	131	44	5	8
Williams Lake	081	6,523	6,626	1,764	458	166
Out/Province	529	445	1,018	72	1,516	9
Miscellaneous	999	2,456	789	42	5	16
Total Licenced Vehicles		1,159,554	436,370	158,986	32,601	34,185

Summary of Revenue Collected Under the Motor Vehicle Act, Commercial Transport Act, All Terrain Vehicle Act, *For the Period of January 1, 1982 to December 31, 1982*

Revenue Source	1981	1982
Revenue collected and reported directly to the Motor Vehicle Department	18,938,991.53	20,043,803.87
Licence Revenue accounted through the Vehicle Licence and Insurance Program by the Insurance Corporation on behalf of the Motor Vehicle Department	84,746,750.00	97,025,534.00
	103,685,741.53	117,069,337.87

Social Service Tax is collected on the sale of vehicles. During 1982 the amount of $21,390,676.12 was collected through the Insurance Corporation of British Columbia and accounted directly to the Ministry of Finance.

Motor Vehicle Act - Revenue Source

VEHICLE	1981	1982
Licence Fees:		
Passenger	37,285,593.00	40,363,922.00
Motorcycles	507,940.00	611,597.00
Utility Trailer	1,915,808.00	2,010,841.00
Demonstration - Vehicles	345,793.00	344,093.00
Demonstration - Motorcycles	5,862.00	8,051.00
Transporter	24,768.00	24,617.00
Manufacturer	5,135.00	5,279.00
Repairman	78,346.00	86,336.00
Vintage	6,577.00	7,787.00
Dealers Interim	37,420.00	43,160.00
Personalized	365,355.00	242,482.00
Sub Total	40,578,597.00	43,758,165.00
General Fees:		
New Plate Fee	New Fee in 1982	863,659.00
Notice of Transfer of Ownership	617,135.00	1,815,443.00
Duplicate Certificates	87,599.00	260,257.00
New Vehicle Registration	157,800.00	645,205.00
Decal Replacement	11,581.00	161,314.00
Plate Substitution	54,842.00	
Search of Vehicle Records	261,226.49	288,508.92
Vehicle Inspection	1,585,285.00	2,692,961.50
Plate Transfer	New Fee in 1982	158,649.00
F R Filing Fee	New Fee in 1982	13,360.00
Sub Total	2,775,468.49	6,899,357.42
Permit Fees:		
Temporary Operation	123,451.00	281,025.00
Temporary Testing & Demonstration	80,709.00	193,570.00
Sub Total	204,160.00	474,595.00
Other:		
Suspense (Not Allocated)	New Fee in 1982	331.01
Suspense (Refunds)	New Fee in 1982	5,028.57
Miscellaneous	13.00	1,327.31
Exchange Account	3,111.20	7,637.66
Recycling		14,919.85
Sub Total	3,124.20	29,244.40
Total Vehicle Revenue	43,561,349.00	51,161,361.00

Motor Vehicle Act - Revenue Source

DRIVERS	1981	1982
Licence Fees		
Originals	4,028,360.00	3,565,356.00
Duplicates	299,541.00	280,362.00
Industrial Air Certificates	635.00	473.00
Driving School Licences	5,355.00	5,445.00
Sub Total	4,333,891.00	3,851,636.10
General Fees		
Identification Cards	43,680.00	46,762.00
Air Brake Manuals	20,411.00	14,979.25
Driver Examination Medical Appeals	400.00	2,400.00
Driver Examination Fee	1,012,874.00	882,017.00
Driver Licence Assessment	1,009,392.86	383,090.00
Driver Record Search	14,258.89	19,350.48
Sub Total	2,101,016.75	1,348,598.73
Other		
Driver Licence Overpayments	325.42	
Sub Total	325.42	
Total Driver Licence Revenue	6,435,233.17	5,200,234.83
Total Motor Vehicle Act	49,996,582.86	56,361,596.65

Commercial Transport Act - Revenue Source

	1981	1982
Licence Fees		
Commercial	43,464,412.00	49,303,663.00
Trailers	345,266.00	328,541.00
Trailer Floater	215,239.00	201,579.00
Probate & Reciprocity	970,508.50	1,949,581.48
Special Agreement Licences	56,563.00	53,319.00
Sub Total	45,051,988.50	51,836,683.48
General Fees		
New Plate	New Fee in 1982	259,714.00
New Vehicle Registration	270,155.00	183,756.00
Decal Replacement	4,894.00	
Plate Substitution	24,346.00	60,640.00
Sub Total	299,395.00	504,110.00
Permit Fees		
Temporary Operation	211,780.81	312,097.50
Temporary Testing & Demonstration	25,608.00	74,741.00
Non Resident Commercial	1,657,432.25	1,658,967.00
Oversize/Overweight & Highway Crossing	2,059,577.16	2,203,812.86
Commercial Trans Trust Account	Accounting Change in 1982	76,894.00
Sub Total	3,954,398.22	4,326,512.36
Total Commercial Transport Act	49,305,781.72	56,667,305.84

All Terrain Vehicle Unit - Revenue Source

	1981	1982
Licence Fees		
Registration Fee	8,470.00	9,164.00
Sub Total	8,470.00	9,164.00
General Fees		
Decal Substitution	134.00	
Transfer of Ownership	1,858.00	
Duplicate Certificate	214.00	
Sub Total	2,206.00	
Total All Terrain Vehicle Unit	10,676.00	9,164.00
Total Motor Carrier Act		1,146.00

Summary of Revenues Collected

	1981	1982
Motor Vehicle Act	49,996,582.86	56,361,596.65
Commercial Transport Act	49,305,781.72	56,667,305.84
All Terrain Vehicle Act	10,676.00	9,164.00
Motor Carrier Act		1,146.00
Sub Total	99,313,040.58	113,039,212.49
Total	99,313,040.58	113,039,212.49

Other revenues collected by the Motor Vehicle Department in conjunction with the licensing programs on behalf of the Ministry of Finance and the Insurance Corporation of British Columbia

	1981	1982
Ministry of Finance		
Social Service Tax Act	1,350,784.15	981,020.31
Motive Fuel Use Tax Act	545,176.48	546,856.40
Sub Total	1,895,960.63	1,527,876.71
Insurance Corporation of British Columbia	2,476,740.32	2,502,248.67
Sub Total	2,476,740.32	2,502,248.67
Total Other Revenues	4,372,700.95	4,030,125.38
Total Revenue Collected	103,685,741.53	117,069,337.87

REFUNDS

Legislation provides for the refunding of licence fees where licence plates are surrendered to the Superintendent. A person who was allocated motor vehicle licence plates for use on a vehicle registered in his name can, upon disposal of the vehicle, retain, destroy or attach the number plates to a substitute vehicle, or surrender them to the Superintendent, together with an application for refund of fees.

Refunds for motor vehicle licence plates are granted on the basis of the unexpired portion of the licence-year, but no refund is made of an amount less than $5.00.

On reassignment of the motor vehicle plates to a substitute vehicle, no refund is granted if the combined licence and insurance fee is less than $5.00.

The following summary sets out the amount of money refunded for the 1982 calendar year.

1982 Refund Statistics - January 1/82 to December 31/82

	Type of Refund	Number	Amount
	General Refunds		
	Motor Vehicle Act		
	Passenger	206	5,007.31
	Drivers	351	5,437.57
*	I.C.B.C. (Mid Term Changes)	34	296,914.00
	Search Fees	655	3,510.68
	Personalized Number-plates	237	17,717.00
	Drivers Licence Assessment Fee	62	1,715.96
	Financial Responsibility Filing Fee	60	623.01
	Transporter Plates	20	561.00
	Motor Vehicle Inspection	6	224.00
	Demo, Repairer, Manufacturer Refunds	492	31,437.00
	I.C.B.C. Batches	135	130,067.13
	Department of Commercial Transport		
	Commercial	230	17,652.22
*	I.C.B.C. (Mid Term Changes)	34	544,042.00
	Supplementary Fees	—	—
	Trailer Floater	58	3,991.00
	Weigh Scale General Account	7	2,149.70
		2,577	1,061,049.58
	Relinquishment Refunds		
	Motor Vehicle Act		
*	I.C.B.C. (Cancellations)	24	3,398,483.00
	Drivers	580	2,805.00
	Department of Commercial Transport		
*	I.C.B.C. (Cancellations)	24	2,454,722.00
		628	5,856,010.00
	All Terrain Vehicle Refunds		
	All Terrain Vehicle	4	17.00
		4	17.00
		3,209	6,917,076.58

* Monies refunded by I.C.B.C. on behalf of MVD and reimbursed to I.C.B.C. by MVD.

DRIVERS LICENCE DIVISION

The Driver Licence Division is responsible for the examination of an applicant's ability to safely operate a class of motor vehicle; for the issuance of drivers' licences and British Columbia Identification Cards; for the administration of the driver medical review program; for development of the Driver Safety and Improvement Program; for the compiling and recording of incident reports; and the licencing of Driver Training School operators and instructors.

There are 105 driver examiners throughout the Province who maintain and operate 21 travelling driver examination units serving the drivers' licencing needs in all areas of British Columbia. The issuance of drivers' licences is done through Motor Licence offices, Government Agencies, and Motor Licence sub-offices as appointed.

Original driver licences issued during the calendar year totalled 81,997, a decrease of 23,005 or 28 percent from 105,002 issued in 1981.

The number of licenced drivers in British Columbia as of December 31, 1982, was 2,079,969, an increase of 35,248 over the previous year.

There were 1,182,641 male drivers and 897,328 female drivers.

DRIVING OFFENCES

The reporting of driving offences under the Criminal Code (Canada), Motor Vehicle Act and Motor Vehicle Act Regulations, continues to supply information for inclusion in the individual driving records of each driver in this Province. Access to these records is available by means of the driver's licence number or by the name of the driver. It is the responsibility of the Driver Licence Division to retain these records and to utilize the information in their assessment of driver records.

Total Number of Offences Committed Under the Criminal Code *(Canada) as Reported to the Superintendent of Motor Vehicles (Includes Juveniles) 1979 - 1982 for All Drivers*

Offences	1979	1980	1981	1982
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	13	7	8	7
Causing injury by criminal negligence, sec. 204	0	1	4	2
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	43	25	39	57
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	583	614	649	560
Dangerous driving, sec. 233 (4)	467	538	698	618
Driving while ability impaired, sec. 234	6,753	6,853	7,342	7,181
Breath sample not provided, sec. 235	1,440	1,736	1,997	2,111
Driving with more than 80 milligrams of alcohol in blood, sec. 236	7,794	8,464	10,193	9,684
Operating motor vehicle while driver's licence under prohibition, sec. 238	2,536	2,291	261	5
TOTAL	19,629	20,529	21,191	20,225

(Legislation declared ultravires on February 4, 1981)

Total Number of Offences Committed Under the Motor Vehicle Act *as Reported to the Superintendent of Motor Vehicles (Includes Juveniles) 1979 - 1982 for All Drivers*

	Offences	1979	1980	1981	1982
	Under Motor Vehicle Act				
	Driving without a licence, sec. 23 (1), 23 (2)	3,297	4,441	6,332	7,715
	Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	2,131	2,646	5,663	6,452
	Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	1,150	1,262	1,655	2,129
	Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	11,055	15,051	19,679	22,864
	Driving when right to obtain licence is suspended, sec. 31 (3)	4	1	10	3
	Failing to fulfill duty of driver involved in incident, sec. 62	1,216	1,181	1,236	1,298
	Using licence belonging to another; refusing to show licence, sec. 64	391	548	1,471	1,380
***	Failing to comply with instruction of peace officer, sec. 67	-	-	-	79
****	Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	34	70	467	1,048
****	Failing to stop for peace officer, sec. 92/1	-	-	-	11
	Disobeying a peace officer, sec. 119	79	51	62	83
	Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	45,551	50,793	55,911	66,775
	Failing to obey special signs "re" highway construction, sec. 145, 146, 148	769	2,084	703	621
	Driving without due care and attention, sec. 149 (A)	8,766	9,243	9,787	7,170
	Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	2,320	2,552	2,878	2,488
	Driving too fast for road or weather conditions, sec. 149 (C)	3,768	4,129	4,316	3,806
	Driving too slowly, sec. 150	100	253	150	126
	Speeding, sec. 151	254,101	270,095	281,850	312,502
	Speeding in playground or school zone, sec. 152	13,985	19,183	18,017	25,705
	Failing to stop on meeting or overtaking school bus, sec. 153	252	350	344	383
	Failing to drive on the right, sec. 154	1,527	1,702	1,735	1,572
	Infractions of "lane" driving, sec. 155, 156, 157	7,171	7,674	8,732	8,282
	Infractions of "passing", sec. 159, 160, 161, 162, 165	8,118	8,845	3,791	3,685
*	Following too close, sec. 164	-	-	4,753	3,822
	Infractions of turning, starting, and directional signals, sec. 166, 167, 189, 169, 170, 170/A, 171-174	4,919	5,451	5,638	6,385
	Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	6,887	7,418	7,639	6,378
	Not exercising due care "re" pedestrians, sec. 181, 183	2,400	2,163	2,400	2,334
	Failing to stop at railway crossing, sec. 186	414	329	408	435
	Failing to stop properly at stop sign, sec. 187	16,967	19,441	19,176	22,933
	Leaving vehicle improperly parked, sec. 192	640	18	19	4
	Backing vehicle illegally, sec. 194	2,791	2,961	2,739	2,371
	Improper seating in motorcycle, sec. 195	14	13	10	21
	Failing to comply with requirements before moving vehicle, sec. 196	95	80	75	92

* Sec. 164 was included with secs. 159, 160, 161, 162 and 165 for the years 1979–1980.

*** These statistics not recorded before 1982.

**** New section as of September 1, 1982, was included in sec. 196 for the years 1979–1981.

Total Number of Offences Committed Under the Motor Vehicle Act *as Reported to the Superintendent of Motor Vehicles (Includes Juveniles) 1979 - 1982 for all Drivers*—Continued

	Offences	1979	1980	1981	1982
Under	Motor Vehicle Act - continued				
****	Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	-	-	-	7
	Coasting down grade illegally, sec. 198	2	5	5	5
	Failing to observe fire vehicle safety, sec. 199, 200	23	38	30	28
	Driving over sidewalk, walkway or boulevard, sec. 201	181	204	217	224
	Opening door when unsafe, sec. 204	52	60	42	49
	Illegal depositing of articles on highway, sec. 205	240	171	192	170
***	Operating motor vehicle with less than minimum clearance, sec. 206	-	-	-	1
***	Operating motor vehicle with television set in illegal position, sec. 207	-	-	-	0
***	Operating motor vehicle without required emergency warning devices, sec. 209	-	-	-	0
***	Operating an improperly equipped motor vehicle, sec. 216	-	-	-	0
	Failing to wear seat belt assembly, sec. 217	3,779	12,063	18,210	36,596
	Riding motorcycle without safety helmet, sec. 218	620	613	809	709
	Registration and licence, sec. 3	-	-	-	87
	Number plate offence, sec. 12	-	-	-	5,554
	Change of address and/or name of motor vehicle, sec. 13	-	-	-	124
	Transfer of motor vehicle, sec. 16	-	-	-	60
	Registration of foreign motor vehicles and trailers, sec. 20	-	-	-	153
	Learner not accompanied by adult, sec. 24 (6)	-	-	-	54
	Change of address and/or name of driver, sec. 27	-	-	-	1,147
	Exemption of non-resident drivers, sec. 31	-	-	-	130
	Municipal chauffeurs permit, sec. 32	-	-	-	56
	Parking prohibited, sec. 188	-	-	-	237
	Vehicle stopping prohibited/manner of parking, sec. 190, 191	-	-	-	1,808
	Pedestrian wrongdoing, sec. 181 (2)	-	-	-	18
	Rights and Duty of cyclist, sec. 185	-	-	-	236
	Evidence of weight of vehicle or load, sec. 212	-	-	-	14
	Repairmans licence, sec. 42	-	-	-	7
	Dealer plates, sec. 44	-	-	-	10
	Accident reported in 24 hours or 48 hours, sec. 61	-	-	-	146
	Misuse of number plates, sec. 63	-	-	-	83
	Use of another's licence or permit/failure to permit inspection, sec. 64 (A), 64 (B)	-	-	-	111
	Production of motor vehicle licence, sec. 65	-	-	-	1,632
	Alteration of plates/driver's licence, sec. 68	-	-	-	84
	Liability of owner for violation of Act, sec. 76	-	-	-	443
	Allowing unlicenced minor to drive, sec. 78	-	-	-	58
	TOTAL	405,809	453,182	487,151	570,993

*** These statistics not recorded before 1982.

**** New section as of September 1, 1982, was included in sec. 196 for the years 1979-1981.

Total Number of Offences Committed Under the Motor Vehicle Act *Regulations as Reported to the Superintendent of Motor Vehicles (Includes Juveniles) 1979 - 1982 for All Drivers*

	Offences	1979	1980	1981	1982
Under Motor Vehicle Act Regulations					
	Loud and unnecessary noise from motor vehicle, Division 7A:01	17,690	10,346	4,417	3,318
*	Lamps, sec. 4.01-4.2	-	-	-	6,742
*	Brakes, sec. 5.01-5.09	-	-	-	675
*	Brake regulations, sec. 6.01-6.13	-	-	-	1,043
*	Other equipment, sec. 7.01-7.14	-	-	-	3,887
*	Bald tires, sec. 7.161 (1) - 7.161 (4)	-	-	-	4,040
*	Slow moving vehicles, sec. 78.01-78.04	-	-	-	67
*	Equipment kept for sale, sec. 8.01-8.04	-	-	-	4
*	Temporary operator permits, sec. 14.01-14.05	-	-	-	98
*	Parking violation, sec. 18.01	-	-	-	108
*	Oversize/escaping load/studded tires, sec. 19.02-19.05	-	-	-	1,558
*	Operating without permit, sec. 24.01	-	-	-	11
*	No valid inspection sticker, sec. 25.02	-	-	-	9,059
*	Insecure load, sec. 35.01-35.13	-	-	-	796
*	Display/use of number plates, sec. 3.01-3.12	-	-	-	3,909
	TOTAL	17,690	10,346	4,417	35,315

* Recording of these statistics began in April 1982, therefore no figures are available for 1979-1981 and the first three months in 1982.

Total Number of Offences Committed by Juveniles Under the Motor Vehicle Act *as Reported to the Superintendent of Motor Vehicles*
1979 - 1982

	Offences	1979	1980	1981	1982
	Under Motor Vehicle Act				
	Driving without a licence, sec. 23 (1), 23 (2)	5	19	29	57
	Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	9	12	22	31
	Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	12	8	5	22
	Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	31	59	85	128
	Driving when right to obtain licence is suspended, sec. 31 (3)	0	1	0	0
	Failing to fulfill duty of driver involved in incident, sec. 62	5	11	16	18
	Using licence belonging to another; refusing to show licence, sec. 64	3	8	10	9
***	Failing to comply with instruction of peace officer, sec. 67	0	0	0	4
****	Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	0	0	2	2
****	Failing to stop for peace officer, sec. 92/1	0	0	0	0
	Disobeying a peace officer, sec. 119	0	1	0	1
	Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	305	287	358	321
	Failing to obey special signs "re" highway construction, sec. 145, 146, 148	0	15	3	1
	Driving without due care and attention, sec. 149 (A)	206	216	233	166
	Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	63	65	54	53
	Driving too fast for road or weather conditions, sec. 149 (C)	117	91	86	79
	Driving too slowly, sec. 150	0	5	1	2
	Speeding, sec. 151	2,185	2,006	2,267	1,950
	Speeding in playground or school zone, sec. 152	94	136	161	145
	Failing to stop on meeting or overtaking school bus, sec. 153	3	6	8	5
	Failing to drive on the right, sec. 154	22	15	33	16
	Infractions of "lane" driving, sec. 155, 156, 157	73	57	59	50
	Infractions of "passing", sec. 159, 160, 161, 162, 165	105	93	28	21
*	Following too close, sec. 164	-	-	53	43
	Infractions of turning, starting, and directional signals, sec. 166, 167, 189, 169, 170, 170/A, 171-174	37	36	49	47
	Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	68	86	103	73
	Not exercising due care "re" pedestrians, sec. 181, 183	11	12	22	17
	Failing to stop at railway crossing, sec. 186	3	4	3	2
	Failing to stop properly at stop sign, sec. 187	202	181	221	200
	Leaving vehicle improperly parked, sec. 192	1	0	0	0
	Backing vehicle illegally, sec. 194	36	32	33	32
	Improper seating in motorcycle, sec. 195	2	0	0	0
	Failing to comply with requirements before moving vehicle, sec. 196	1	1	3	2

* Sec. 164 was included with secs. 159, 160, 161, 162 and 165 for the years 1979-1980.

*** These statistics not recorded before 1982.

**** New section as of September 1, 1982, was included in sec. 196 for the years 1979-1981.

Total Number of Offences Committed by Juveniles Under the Motor Vehicle Act *as Reported to the Superintendent of Motor Vehicles*
1979 - 1982—Continued

	Offences	1979	1980	1981	1982
Under	Motor Vehicle Act - continued				
****	Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	0	1	0	0
	Coasting down grade illegally, sec. 198	0	0	0	0
	Failing to observe fire vehicle safety, sec. 199, 200	0	0	0	0
	Driving over sidewalk, walkway or boulevard, sec. 201	1	2	1	2
	Opening door when unsafe, sec. 204	0	1	0	0
	Illegal depositing of articles on highway, sec. 205	0	2	0	1
***	Operating motor vehicle with less than minimum clearance, sec. 206	0	0	0	0
***	Operating motor vehicle with television set in illegal position, sec. 207	0	0	0	0
***	Operating motor vehicle without required emergency warning devices, sec. 209	0	0	0	0
***	Operating an improperly equipped motor vehicle, sec. 216	0	0	0	0
	Failing to wear seat belt assembly, sec. 217	14	56	75	110
	Riding motorcycle without safety helmet, sec. 218	2	2	5	5
	TOTAL	3,616	3,527	4,028	3,615

*** These statistics not recorded before 1982.

**** New section as of September 1, 1982, was included in sec. 196 for the years 1979-1981.

Total Number of Offences Committed by Juveniles Under the Criminal Code *(Canada) as Reported to the Superintendent of Motor Vehicles*
1979 - 1982

Offences	1979	1980	1981	1982
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	0	0	0	0
Causing injury by criminal negligence, sec. 204	0	0	0	0
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	0	1	0	3
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	4	4	5	0
Dangerous driving, sec. 233 (4)	3	15	22	12
Driving while ability impaired, sec. 234	16	48	51	28
Breath sample not provided, sec. 235	0	2	5	3
Driving with more than 80 milligrams of alcohol in blood, sec. 236	15	36	47	27
Operating motor vehicle while driver's licence under prohibition, sec. 238	3	5	1	0
TOTAL	41	111	131	73

(Legislation declared ultravires on February 4, 1981)

Analysis of Licensed Drivers on File for 1982
Male
Classifications

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	1	0	0	0	0	0	0	0	0	0	9,372	320	89	0	9,782
17	0	0	0	0	0	0	0	0	0	0	15,655	821	109	0	16,585
18	4	0	0	0	66	0	0	16	1	0	19,398	1,418	90	0	20,993
19	77	25	9	3	203	2	1	28	152	21	21,309	1,908	80	0	23,818
20	234	56	40	12	341	19	7	85	382	55	21,867	2,391	88	0	25,577
21-25	3,700	1,306	572	205	3,364	362	129	974	4,283	977	112,363	17,296	383	0	145,914
26-30	5,170	2,546	1,307	578	4,750	794	382	1,874	7,256	2,067	111,155	22,771	359	0	161,009
31-35	6,045	1,986	1,976	634	5,076	918	357	1,483	7,569	1,662	110,375	17,422	170	0	155,673
36-40	6,156	1,090	1,824	319	4,581	726	153	670	5,226	678	93,346	7,386	46	0	122,201
41-45	5,275	646	1,476	204	3,990	479	82	391	3,071	262	73,236	3,665	28	0	92,805
46-50	4,336	413	1,241	124	3,602	412	45	269	2,063	151	66,117	2,397	15	0	81,185
51-55	3,388	278	984	103	3,274	313	28	184	1,603	96	64,688	1,878	16	0	76,833
56-60	1,894	112	800	53	2,579	211	13	101	1,188	49	59,853	1,255	19	0	68,127
61-65	898	39	515	20	1,656	97	5	44	762	34	53,248	760	20	0	58,098
66-70	188	7	155	10	599	29	3	12	400	9	49,303	496	9	0	51,220
71-75	10	0	15	1	36	1	0	0	48	1	35,862	171	11	0	36,156
76-80	1	0	1	0	6	0	0	0	8	0	21,954	36	10	0	22,016
81-85	0	0	0	0	0	0	0	0	1	0	9,686	8	4	0	9,699
86-90	0	0	0	0	0	0	0	0	0	0	3,719	1	3	0	3,723
91-95	0	0	0	0	0	0	0	0	0	0	1,080	0	0	0	1,080
96&Over	0	0	0	0	0	0	0	0	0	0	141	0	0	0	141
Unknown	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
TOTAL	37,377	8,504	10,915	2,266	34,123	4,363	1,205	6,131	34,013	6,062	953,733	82,400	1,549	0	1,182,641

Analysis of Licensed Drivers on File for 1982
Female
Classifications

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	0	0	0	0	0	0	0	0	0	0	5,858	27	6	0	5,891
17	0	0	0	0	0	0	0	0	1	0	11,506	55	14	0	11,576
18	0	0	0	0	0	0	0	0	0	0	15,645	80	9	0	15,734
19	2	0	3	0	3	0	0	2	39	0	18,228	119	10	0	18,406
20	13	1	4	0	10	1	0	3	120	1	19,852	159	14	0	20,178
21-25	154	11	107	11	105	15	1	8	1,373	77	117,867	1,532	70	0	121,331
26-30	154	21	256	19	140	12	4	15	1,907	132	131,268	2,134	65	0	136,127
31-35	131	9	258	23	79	12	1	11	1,441	86	125,627	1,628	35	0	129,341
36-40	92	13	223	19	53	14	0	0	989	44	96,736	802	11	0	98,946
41-45	61	5	176	11	32	7	0	2	693	15	70,846	356	13	0	72,217
46-50	26	4	129	2	30	4	0	3	437	9	57,344	194	6	0	58,188
51-55	15	0	66	2	36	0	0	0	319	5	52,866	122	10	0	53,441
56-60	10	1	54	0	17	2	0	1	166	1	49,949	65	5	0	50,271
61-65	1	0	13	0	3	1	0	0	94	0	42,034	30	3	0	42,179
66-70	0	0	4	0	1	0	0	0	28	0	32,182	13	0	0	32,228
71-75	0	0	1	0	1	0	0	0	1	0	18,254	8	2	0	18,267
76-80	0	0	0	0	0	0	0	0	0	0	8,528	0	1	0	8,529
81-85	0	0	0	0	0	0	0	0	1	0	3,302	2	0	0	3,305
86-90	0	0	0	0	0	0	0	0	0	0	988	0	0	0	988
91-95	0	0	0	0	0	0	0	0	0	0	170	0	0	0	170
96&Over	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12
Unknown	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
TOTAL	659	65	1,294	87	510	68	6	45	7,559	370	879,065	7,326	274	0	897,328

Analysis of Licensed Drivers on File for 1982
All
Classifications

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	1	0	0	0	0	0	0	0	0	0	15,230	347	95	0	15,673
17	0	0	0	0	0	0	0	0	1	0	27,161	876	123	0	28,161
18	4	0	0	0	66	0	0	16	1	0	35,043	1,498	99	0	36,727
19	79	25	12	3	206	2	1	30	191	21	39,537	2,027	90	0	42,224
20	247	57	44	12	351	20	7	88	502	56	41,719	2,550	102	0	45,755
21-25	3,854	1,317	679	216	3,469	377	130	982	5,656	1,054	230,230	18,828	453	0	267,245
26-30	5,324	2,567	1,563	597	4,890	806	386	1,889	9,163	2,199	242,423	24,905	424	0	297,136
31-35	6,176	1,995	2,234	657	5,155	930	358	1,494	9,010	1,748	236,002	19,050	205	0	285,014
36-40	6,248	1,103	2,047	338	4,634	740	153	670	6,165	722	190,082	8,188	57	0	221,147
41-45	5,336	651	1,652	215	4,022	486	82	393	3,764	277	144,082	4,021	41	0	165,022
46-50	4,362	417	1,370	126	3,632	416	45	272	2,500	160	123,461	2,591	21	0	139,373
51-55	3,403	278	1,050	105	3,310	313	28	184	1,922	101	117,554	2,000	26	0	130,274
56-60	1,904	113	854	53	2,596	213	13	102	1,364	50	109,802	1,320	24	0	118,398
61-65	899	39	528	20	1,659	98	5	44	856	34	95,282	790	23	0	100,277
66-70	188	7	159	10	600	29	3	12	428	9	81,485	509	9	0	83,448
71-75	10	0	16	1	37	1	0	0	49	1	54,116	179	13	0	54,423
76-80	1	0	1	0	6	0	0	0	8	0	30,482	36	11	0	30,545
81-85	0	0	0	0	0	0	0	0	2	0	12,988	10	4	0	13,004
86-90	0	0	0	0	0	0	0	0	0	0	4,707	1	3	0	4,711
91-95	0	0	0	0	0	0	0	0	0	0	1,250	0	0	0	1,250
96&Over	0	0	0	0	0	0	0	0	0	0	153	0	0	0	153
Unknown	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9
TOTAL	38,036	8,569	12,209	2,353	34,633	4,431	1,211	6,176	41,572	6,432	1,832,798	89,726	1,823	0	2,079,969

Motor Vehicle Traffic Accident Frequencies** - 1971 to 1982

YEAR	TOTAL VEHICLES	NUMBER OF	ACCIDENTS PER 1,000 VEHICLES LICENCED	INJURIES	DEATHS	DEATHS PER 10,000 VEHICLES LICENCED	DEATHS PER 100 MILLION KM	FATAL	FATAL ACCIDENTS PER 100 MILLION KM
1971	1,087,992	59,745	54.9	22,340	636	5.8	4.0	538	3.8
1972	1,164,749	59,996	51.5	23,316	716	6.1	4.3	602	3.6
1973	1,248,422	69,564	56.0	27,709	825	6.7	4.5	698	3.8
1974	1,333,891	84,445	63.3	28,699	844	6.3	4.2	718	3.6
1975	1,349,382	85,601	63.4	25,003	717	5.3	3.5	593	2.9
1976	1,411,380	84,158	59.7	25,239	630	4.5	3.0	541	2.6
1977	1,556,262	115,046	73.9	31,942	718	4.6	3.2	617	2.8
1978	1,682,710	112,635	66.9	33,105	640	3.8	2.7	553	2.3
1979	1,800,486	123,863	68.8	37,809	738	4.1	2.9	628	2.5
1980	1,880,382	143,577	76.3	41,500	811	4.3	3.0	710	2.6
1981	1,809,829	127,831*	70.6	44,123	859	4.7	3.2	761	2.9
1982	1,821,696	111,868*	61.4	33,807	601	3.3	2.5	524	2.2

In 1982 there were 524 fatal accidents in which 601 victims were killed. Also, during this year 33,807 victims were injured in 23,662 personal injury accidents.

* The number of accidents in 1981 and 1982 cannot be compared to previous years because the reporting level for property damage only accidents was raised January 1, 1981 from $200.00 to $400.00. This has significantly reduced the number of accidents reported since 1981.

** Reportable accidents are those where the aggregate property damage exceeds $400.00 or a person is injured or killed. During 1977 a new Traffic Accident Reporting system was introduced and as a result, a higher number of accidents were reported. Prior to 1977 accident data was obtained from driver completed forms. The new system now obtains data from forms completed by the police. Due to the significant change in the way reports were submitted, a comparison between data previous to 1977 and data collected after January 1, 1977 should not be attempted.

Accidents & Victims by Month During 1982

MONTH	FATAL ACCIDENTS	VICTIMS KILLED	PERSONAL INJURY ACCIDENTS	VICTIMS INJURED	PROPERTY DAMAGE ACCIDENTS	NUMBER OF VEHICLES	PEDESTRIANS KILLED	TOTAL NUMBER OF ACCIDENTS
January	29	35	1,864	2,607	10,797	23,579	7	12,690
February	29	31	1,761	2,552	8,397	18,932	6	10,187
March	39	46	1,733	2,442	6,983	16,080	12	8,755
April	45	48	1,713	2,502	6,623	15,331	10	8,381
May	57	66	1,964	2,779	6,039	14,495	6	8,060
June	46	51	2,093	3,031	6,329	15,200	2	8,468
July	49	59	2,178	3,225	6,675	16,005	4	8,902
August	51	56	2,038	3,003	6,320	15,218	7	8,409
September	40	47	1,950	2,705	6,079	14,688	0	8,069
October	50	58	2,231	3,178	7,269	17,237	10	9,550
November	47	56	2,176	3,007	8,056	18,139	7	10,279
December	42	48	1,961	2,776	8,115	18,085	16	10,118
TOTALS	524	601	23,662	33,807	87,682	202,989	87	111,868

Motor Vehicle Accident Fatal and Injury Victims by Age - 1982

	Fatal Victims				Injury Victims			
Age	Male	Female	Unknown	Total	Male	Female	Unknown	Total
Unknown	10	10	1	21	1,285	886	108	2,279
1	2	0	0	2	64	47	1	112
2	3	1	0	4	57	65	0	122
3	3	1	0	4	72	67	0	139
4	4	0	0	4	69	75	1	145
5	1	0	0	1	82	59	0	141
6-10	9	5	0	14	501	328	0	829
11-15	14	8	0	22	751	696	2	1,449
16	9	6	0	15	605	449	0	1,054
17	12	4	0	16	929	558	1	1,488
18	24	3	0	27	1,033	594	2	1,629
19	15	4	0	19	1,185	604	0	1,789
20	17	6	0	23	1,093	565	0	1,658
21-25	84	18	0	102	3,954	2,061	4	6,019
26-30	43	17	0	60	2,292	1,466	3	3,761
31-35	27	11	0	38	1,678	1,123	1	2,802
36-40	24	8	0	32	1,030	854	1	1,885
41-45	21	10	0	31	707	640	1	1,348
46-50	16	1	0	17	567	542	2	1,111
51-55	18	16	0	34	546	484	1	1,031
56-60	14	6	0	20	471	459	2	932
61-65	13	10	0	23	342	383	0	725
66-70	10	9	0	19	241	320	2	563
71-75	10	9	0	19	205	183	0	388
76-80	11	4	0	15	98	120	0	218
81-85	8	5	0	13	52	47	0	99
86-90	4	1	0	5	28	30	0	58
91-95	0	1	0	1	6	6	0	12
96 & Over	0	0	0	0	5	14	2	21
TOTALS	426	174	1	601	19,948	13,725	134	33,807

Type of Safety Equipment Used by Drivers in Accidents - 1982

SAFETY EQUIPMENT	PROPERTY DAMAGE		INJURY ACCIDENTS		FATAL ACCIDENTS		TOTAL DRIVERS
	NUMBER OF DRIVERS	% OF TOTAL DRIVERS	NUMBER OF DRIVERS	% OF TOTAL DRIVERS	NUMBER OF DRIVERS	% OF TOTAL DRIVERS	
Harness & Lap Belt	33,508	35.0	13,913	14.5	145	.2	47,566
Lap Belt Only	12,223	12.8	5,246	5.6	71	.1	17,540
Not Used	8,574	8.9	6,325	6.6	311	.3	15,210
None in Vehicle	1,912	2.0	2,124	2.2	50	0	4,086
Harness Only	1,305	1.4	502	.5	6	0	1,813
Helmet	75	.1	650	.7	19	0	744
Air Bag	11	0	12	0	0	0	23
Unknown	3,581	3.7	2,605	2.7	66	.1	6,252
Non-Applicable	1,547	1.6	805	.8	41	0	2,393
Other	138	.1	114	.1	4	0	256
TOTALS	62,874	65.6	32,296	33.7	713	.7	95,883

Type of Safety Equipment Used by Passengers in Accidents - 1982

SAFETY EQUIPMENT	PROPERTY DAMAGE		INJURY ACCIDENTS		FATAL ACCIDENTS		TOTAL PASSENGERS
	NUMBER OF PASSENGERS	% OF TOTAL PASSENGERS	NUMBER OF PASSENGERS	% OF TOTAL PASSENGERS	NUMBER OF PASSENGERS	% OF TOTAL PASSENGERS	
Harness & Lap Belt	10,719	22.0	5,787	11.9	75	.2	16,581
Not Used	6,213	12.8	6,507	13.3	348	.7	13,068
Lap Only	7,201	15.0	4,048	8.0	53	1	11,302
None in Vehicle	1,156	2.4	1,358	2.8	32	.1	2,546
Child Restraint	475	1.0	227	.5	3	0	705
Harness Only	438	1.0	201	.4	5	0	644
Helmet	11	0	141	.3	5	0	157
Air Bag	12	0	3	0	0	0	15
Unknown	1,240	2.5	1,343	2.8	41	.1	2,624
Non-Applicable	532	1.0	374	.8	20	.1	926
Other	56	.1	69	.1	8	0	133
TOTALS	28,053	57.8	20,058	40.9	590	1.3	48,701

Number of Vehicles Involved in Accidents by Vehicle Type During 1982

VEHICLE TYPE	PROPERTY DAMAGE ACCIDENTS	% OF TOTAL VEHICLE TYPE	INJURY ACCIDENTS	% OF TOTAL VEHICLE TYPE	FATAL ACCI-DENTS	% OF TOTAL VEHICLE TYPE	TOTAL VEHICLES
Passenger Car	113,682	56.0	28,540	14.1	460	.3	142,682
Car and Trailer	575	.3	130	.1	3	0	708
Single Unit Truck, Light	25,366	12.5	5,883	2.9	144	.1	31,393
* Single Unit Truck, Heavy	2,135	1.1	426	.2	22	0	2,583
Light Truck/Trailer	415	.2	90	0	3	0	508
* Heavy Truck/Trailer	530	.3	122	.1	5	0	657
* Tractor Trailer	1,364	.7	369	.2	31	0	1,764
* Tractor Trailer and Pup	209	.1	67	0	11	0	287
School Bus	137	0	24	0	0	0	161
Public Bus	585	.3	169	.1	6	0	760
Motorcycle	757	.4	1,986	1.0	47	0	2,790
Moped	4	0	24	0	0	0	28
Bicycle	139	.1	1,127	.6	20	0	1,286
Camper	1,814	.9	513	.3	11	0	2,338
Camper/Trailer	121	.1	42	0	1	0	164
Motor Home	476	.2	102	.1	1	0	579
Motor Home/Trailer	132	0	40	0	1	0	173
Trailer Only	114	0	24	0	1	0	139
All Terrain Vehicles							
Snowmobiles	13	0	15	0	5	0	33
Four Wheel Drive	599	.3	167	.1	2	0	768
Other All Terrain Vehicles	4	0	11	0	0	0	15
Farm Vehicles	38	0	8	0	1	0	47
Road/General Const. Vehicles	188	.1	27	0	3	0	218
Special Vehicles	4	0	0	0	0	0	4
Unidentified Vehicles	12,576	6.2	327	.2	1	0	12,904
TOTALS	161,977	79.8	40,233	19.8	779	.4	202,989

* These vehicles are defined as weighing 10,900 kg or over

Number of Vehicles Involved in Accidents by Month - 1982

Month	Property Damage Only	Injury	Fatal	Total
January	20,254	3,274	51	23,579
February	15,746	3,135	51	18,932
March	13,049	2,977	54	16,080
April	12,327	2,939	65	15,331
May	11,146	3,271	78	14,495
June	11,667	3,474	59	15,200
July	12,242	3,685	78	16,005
August	11,670	3,470	78	15,218
September	11,300	3,322	66	14,688
October	13,399	3,764	74	17,237
November	14,456	3,613	70	18,139
December	14,721	3,309	55	18,085
TOTALS	161,977	40,233	779	202,989

Major Contributing Factors in 1982 Accidents

Contributing Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Human Action	34,161	12,798	223	47,182	61
Environmental Condition	11,389	3,113	47	14,549	19
Human Condition	7,696	5,182	198	13,076	17
Vehicle Condition	1,644	581	9	2,234	3
TOTAL	54,890	21,674	477	77,041	100

Contributing factors are those circumstances or events that directly contribute to a traffic accident. Provision is made for three contributing factors to be attributed to each vehicle or driver involved in the accident. These figures constitute only those accidents for which causes have been reported.

Accidents Where Human Action was the Major Contributing Factor

Human Action Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Driving Without Due Care	9,272	4,256	75	13,603	29
Failing to Yield Right of Way	6,709	2,999	18	9,726	21
Backing Unsafely	5,585	201	1	5,787	12
Driving at Unsafe Speed	3,256	1,518	61	4,835	10
Following Too Closely	3,128	1,371	1	4,500	10
Ignoring Traffic Device	1,237	830	10	2,077	4
Improper Turning	1,513	352	2	1,867	4
Cutting In	1,090	219	3	1,312	3
Improper Passing	834	251	2	1,087	2
Driving on Wrong Side	660	347	30	1,037	2
No Driver	572	48	0	620	1
Pedestrian Error/Confusion	48	338	20	406	1
Failing to Signal	247	57	0	304	1
Failing to Stop for Peace Officer	10	11	0	31	0
TOTAL	34,161	12,798	223	47,182	100

Accidents Where Environmental Condition was the Major Contributing Factor

Environmental Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Weather Condition	6,306	1,693	28	8,027	55
Wild Animal	1,700	259	0	1,959	13
Visibility Impaired	1,154	357	4	1,515	11
Construction/Debris	532	219	5	756	5
Construction	552	117	0	669	5
Domestic Animal	499	142	4	645	4
(Result of) Directly Preceding Accident	250	127	2	379	3
Pavement in Poor Condition	197	77	3	277	2
Sunlight Glare	119	71	1	191	1
Artificial Glare	53	43	0	96	1
Sign Obstruction	27	8	0	35	0
TOTAL	11,389	3,113	47	14,549	100

Accidents Where Human Condition was the Major Contributing Factor

Human Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Alcohol	5,460	3,975	164	9,599	73
Driver Inexperience	1,753	750	11	2,514	19
Fell Asleep	221	216	11	448	3
Fatigue	131	94	7	232	2
Unconscious	26	51	1	78	1
Illness	33	44	0	77	1
Drugs (Illegal)	29	13	0	42	1
Disability	13	22	2	37	0
Suicide Attempts	13	12	2	27	0
Medication	17	5	0	22	0
TOTAL	7,696	5,182	198	13,076	100

Accidents Where Vehicle Condition was the Major Contributing Factor

Vehicle Defect	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Brakes	563	174	4	741	33
Tires	343	135	0	478	21
Steering	123	70	0	193	9
Engine	119	46	1	166	7
Headlights	70	51	2	123	6
Accelerator	77	29	1	107	5
Turn Signals	77	19	0	96	4
Tow Hitch	78	11	0	89	4
Oversize Vehicle	76	3	0	79	4
Brake Lights	52	21	0	73	3
Suspension	30	7	1	38	2
Safety Equipment	18	7	0	25	1
Modified Vehicle	13	5	0	18	1
Windshield	5	3	0	8	0
TOTAL	1,644	581	9	2,234	100

1982 Traffic Accidents by Police Jurisdictions—Kelowna Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Armstrong	218	2	.9	59	27.1	157	72.0	2	98
Enderby	180	1	.6	64	35.5	115	63.9	1	100
Falkland	73	1	1.4	20	27.4	52	71.2	5	31
Kelowna (Rural)	838	10	1.2	215	25.7	613	73.2	10	324
Kelowna (Municipal)	1,903	11	.6	444	23.3	1,448	76.1	11	603
Keremeos	127	1	.8	44	34.6	82	64.6	1	74
Lumby	135	0	0	30	22.2	105	77.8	0	47
Oliver	271	4	1.5	66	24.3	201	74.2	4	99
Osoyoos	168	1	.6	51	30.4	116	69.0	1	84
Penticton (Rural)	222	4	1.8	61	27.5	157	70.7	5	92
Penticton (Municipal)	785	5	.6	194	24.7	586	74.7	5	272
Princeton	399	5	1.3	113	28.3	281	70.4	6	173
Revelstoke	707	8	1.1	148	20.9	551	78.0	14	229
Salmon Arm (Rural)	117	1	.8	40	34.2	76	65.0	1	65
Salmon Arm (Municipal)	424	0	0	96	22.7	328	77.3	0	139
Sicamous	229	0	0	63	27.5	166	72.5	0	95
Summerland (Rural)	50	1	2.0	15	30.0	134	68.0	1	23
Summerland (Municipal)	124	1	.8	39	31.5	84	67.7	1	49
Vernon (Rural)	479	6	1.2	121	25.3	352	73.5	10	182
Vernon (Municipal)	982	2	.2	214	21.8	766	78.0	2	298
TOTALS	8,431	64	.7	2,097	24.9	6,270	74.4	80	3,077

1982 Traffic Accidents by Police Jurisdictions—Kamloops Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Alexis Creek	65	1	1.5	15	23.1	49	75.4	1	27
Anahim Lake	30	0	0	7	23.3	23	76.7	0	10
Ashcroft	195	4	2.0	38	19.5	153	78.5	5	61
Barriere	130	2	1.5	35	26.9	93	71.6	2	62
Blue River	77	3	3.9	20	26.0	54	70.1	3	34
Chase	248	3	1.2	79	31.9	166	66.9	3	125
Clearwater	192	2	1.0	67	34.9	123	64.1	2	109
Clinton	137	5	3.6	29	21.2	103	75.2	6	71
Kamloops (Rural)	302	9	3.0	86	28.5	207	68.5	13	140
Kamloops (Municipal)	2,371	10	.4	500	21.1	1,861	78.5	10	686
Lillooet	197	2	1.0	38	19.3	157	79.7	3	58
Logan Lake	93	0	0	25	26.9	68	73.1	0	40
Lytton	120	4	3.3	34	28.4	82	68.3	7	59
Merritt (Rural)	166	3	1.8	49	29.5	114	68.7	3	67
Merritt (Municipal)	132	0	0	30	22.7	102	77.3	0	46
100 Mile House	438	2	.5	90	20.5	346	79.0	3	140
Spences Bridge	75	5	6.7	22	29.3	48	64.0	6	36
Valemount	145	1	.7	34	23.4	110	75.9	1	54
Williams Lake (Rural)	452	12	2.6	125	27.7	315	69.7	13	222
Williams Lake (Municipal)	613	1	.2	92	15.0	520	84.8	1	127
TOTALS	6,178	69	1.1	1,415	22.9	4,694	76.0	82	2,174

1982 Traffic Accidents by Police Jurisdictions—Nelson Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Castlegar (Rural)	212	3	1.4	54	25.5	155	73.1	3	71
Castlegar (Municipal)	204	0	0	30	14.7	174	85.3	0	44
Cranbrook (Rural)	330	4	1.2	77	23.3	249	75.5	4	142
Cranbrook (Municipal)	566	0	0	84	14.8	482	85.2	0	118
Crescent Valley	112	4	3.6	25	22.3	83	74.1	5	48
Creston	379	10	2.6	93	24.6	276	72.8	10	147
Fernie	442	1	.2	91	20.6	350	79.2	1	133
Field	85	0	0	15	17.6	70	82.4	0	25
Fruitvale	136	0	0	41	30.1	95	69.9	0	57
Golden	487	4	.8	95	19.5	388	79.7	6	148
Grand Forks	311	5	1.6	57	18.3	249	80.1	5	89
Invermere	262	0	0	53	20.2	209	79.8	0	85
Kaslo	43	0	0	7	16.3	36	83.7	0	10
Kimberley (Rural)	139	2	1.4	36	25.9	101	72.7	2	50
Kimberley (Municipal)	139	0	0	22	15.8	117	84.2	0	25
Midway	91	2	2.2	17	18.7	72	79.1	2	27
Nakusp	142	1	.7	25	17.6	116	81.7	1	41
Nelson	188	4	2.1	60	31.9	124	66.0	4	93
New Denver	55	0	0	14	25.5	41	75.5	0	20
Radium	187	3	1.6	22	11.8	162	86.6	3	35
Rossland	180	2	1.1	32	17.8	146	81.1	2	43
Salmo	139	5	3.6	40	28.8	94	67.6	6	77
Sparwood	421	3	.7	80	19.0	338	80.3	5	120
Trail (Rural)	102	2	2.0	25	24.5	75	73.5	3	36
Trail (Municipal)	381	0	0	57	15.0	324	85.0	0	75
Nelson C & E	1	0	0	0	0	1	100.0	0	0
Elkford	32	0	0	5	15.6	27	84.4	0	7
TOTALS	5,766	55	.9	1,157	20.1	4,554	79.0	62	1,766

1982 Traffic Accidents by Police Jurisdictions—Prince George Subdivision

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Burns Lake	228	1	.4	50	21.9	177	77.7	1	101
Chetwynd	310	0	0	58	18.7	252	81.3	0	76
Dawson Creek (Rural)	364	3	.8	85	23.4	276	75.8	0	126
Dawson Creek (Municipal)	547	0	0	75	13.7	472	86.3	4	102
Fort Nelson	342	2	.6	51	14.9	289	84.5	0	72
Fort St. James	87	1	1.1	20	23.0	66	75.9	2	40
Fort St. John (Rural)	486	1	.2	133	27.4	352	72.4	1	186
Fort St. John (Municipal)	732	1	.1	71	9.7	660	90.2	2	88
Fraser Lake	130	2	1.5	34	26.2	94	72.3	1	64
Hudson Hope	44	0	0	7	15.9	37	84.1	2	8
Mackenzie (Rural)	84	0	0	24	28.6	60	71.4	0	39
Mackenzie (Municipal)	115	0	0	26	22.6	89	77.4	0	36
McBride	127	2	1.6	26	20.5	99	77.9	0	43
Prince George (Rural)	559	7	1.2	129	23.1	423	75.7	2	197
Prince George (Municipal)	3,298	10	.3	476	14.4	2,812	85.3	9	683
Quesnel (Rural)	413	10	2.4	125	30.3	278	67.3	12	202
Quesnel (Municipal)	366	0	0	65	17.8	301	82.2	13	111
Vanderhoof	272	2	.7	63	23.2	207	76.1	0	95
Wells	31	0	0	8	25.8	23	74.2	2	10
Watson Lake	44	1	2.3	13	29.5	30	68.2	0	16
Unknown	3	0	0	1	33.3	2	66.7	1	1
TOTALS	8,582	43	.5	1,540	17.9	6,999	81.6	52	2,296

1982 Traffic Accidents by Police Jurisdictions—Prince Rupert Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Atlin	26	0	0	9	34.6	17	65.4	0	19
Bella Coola	66	1	1.5	17	25.8	48	72.7	1	42
Cassiar	84	0	0	20	23.8	64	76.2	0	29
Granisle	45	0	0	12	26.7	33	73.3	0	17
Hazelton	179	2	1.1	54	30.2	123	68.7	2	79
Houston	229	2	.9	47	20.5	180	78.6	2	74
Kitimat (Rural)	77	0	0	23	29.9	54	70.1	0	37
Kitimat (Municipal)	310	1	.3	64	20.7	245	79.0	1	79
Masset	106	0	0	24	22.6	82	77.4	0	34
New Aiyanish	23	0	0	4	17.4	19	82.6	0	6
Prince Rupert (Rural)	86	1	1.2	24	27.9	61	70.9	1	32
Prince Rupert (Municipal)	672	3	.4	110	16.4	559	83.2	3	143
Queen Charlotte (Municipal)	62	1	1.6	22	35.5	39	62.9	1	33
Smithers	405	5	1.2	83	20.5	317	78.3	6	132
Stewart	72	2	2.8	22	30.5	48	66.7	2	43
Telegraph Creek	44	3	6.8	11	25.0	30	68.2	3	19
Terrace (Rural)	247	1	.4	79	32.0	167	67.6	1	144
Terrace (Municipal)	413	0	0	66	16.0	347	84.0	0	90
TOTALS	3,146	22	.7	691	22.0	2,433	77.3	23	1,052

1982 Traffic Accidents by Police Jurisdictions—Lower Mainland District RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Abbotsford (Rural)	13	0	0	5	38.5	8	61.5	0	7
Abbotsford (Municipal)	527	3	.6	112	21.2	412	78.2	3	164
Agassiz	239	4	1.7	50	20.9	185	77.4	4	77
Burnaby	6,679	11	.2	1,328	19.9	5,340	79.9	12	1,857
Boston Bar	146	4	2.7	41	28.1	101	69.2	7	65
Chilliwack (Rural)	109	2	1.8	31	28.5	76	69.7	2	55
Chilliwack (Municipal)	1,388	6	.4	332	23.9	1,050	75.7	7	449
Chilliwack (Township)	10	0	0	3	30.0	7	70.0	0	4
Coquitlam (Rural)	175	1	.6	42	24.0	132	75.4	1	62
Coquitlam (Municipal)	1,767	3	.2	396	22.4	1,368	77.4	3	541
Maple Ridge (Rural)	199	1	.5	65	32.7	133	66.8	1	101
Maple Ridge (Municipal)	1,156	6	.5	263	22.8	887	76.7	6	388
Hope	582	9	1.5	149	25.6	424	72.9	11	239
Gibsons	284	1	.4	79	27.8	204	71.8	1	104
Langley City	650	0	0	159	24.5	491	75.5	0	236
Langley (Township)	1,152	7	.6	378	32.8	767	66.6	8	570
Mission (Rural)	119	1	.8	45	37.9	73	61.3	1	69
Mission (Municipal)	570	3	.5	142	24.9	425	74.6	4	197
North Vancouver (Rural)	1,463	2	.1	260	17.8	1,201	82.1	2	342
North Vancouver (District)	1,591	1	.1	282	17.7	1,308	82.2	1	341
Pemberton	99	1	1.0	24	24.2	74	74.8	1	38
Port Coquitlam	754	1	.1	192	25.5	561	74.4	1	261
Richmond	3,152	10	.3	757	24.0	2,385	75.7	12	1,008
Sechelt	300	1	.3	73	24.3	226	75.4	1	91
Squamish (Rural)	187	2	1.1	63	33.7	122	65.2	3	101
Squamish (Municipal)	359	1	.3	84	23.4	274	76.3	2	124
Surrey	5,803	24	.4	1,614	27.8	4,165	71.8	28	2,356
University	312	2	.6	71	22.7	239	76.7	2	92
Vancouver Marine	30	0	0	3	10.0	27	90.0	0	4
White Rock	358	0	0	64	17.9	294	82.1	0	95
Unit "A" Freeway	390	3	.8	106	27.2	281	72.0	4	163
Unit "B" Freeway	974	6	.7	315	32.3	653	67.0	5	462
Unit "C" Freeway	274	9	3.3	92	33.6	173	63.1	9	141
Whistler	248	1	.4	37	14.9	210	84.7	1	57
TOTALS	32,059	126	.4	7,657	23.9	24,276	75.7	143	10,861

1982 Traffic Accidents by Police Jurisdictions—Victoria Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Chemainus	188	0	0	56	29.8	132	70.2	0	77
Colwood	926	8	.9	277	29.9	641	69.2	8	385
Duncan	505	4	.8	125	24.8	376	74.4	4	189
North Cowichan	355	1	.3	107	30.1	247	69.6	1	146
Gabriola Island	48	0	0	22	45.8	26	54.2	0	28
Ganges	160	2	1.2	46	28.8	112	70.0	2	61
Ladysmith	238	2	.8	68	28.6	168	70.6	2	93
Lake Cowichan	126	2	1.6	38	30.2	86	68.2	2	65
Nanaimo (Rural)	223	2	.9	71	31.8	150	67.3	2	110
Nanaimo (Municipal)	1,894	8	.4	403	21.3	1,483	78.3	9	550
Pender Island	42	0	0	8	19.0	34	81.0	0	9
Shawnigan Lake	224	1	.4	75	33.5	148	66.1	1	108
Sidney (Rural)	165	1	.6	49	29.7	115	69.7	1	69
Sidney (Municipal)	185	0	0	34	18.4	151	81.6	0	50
Sooke	260	0	0	83	31.9	177	68.1	0	120
TOTALS	5,539	31	.6	1,462	26.4	4,046	73.0	32	2,060

1982 Traffic Accidents by Police Jurisdictions—Municipal Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Vancouver	23,969	40	.2	3,220	13.4	20,709	86.4	45	4,287
Victoria	2,969	7	.2	725	24.5	2,237	75.3	7	960
Saanich	1,986	13	.7	590	29.7	1,383	69.6	16	808
Central Saanich	215	1	.5	56	26.0	158	73.5	1	81
Esquimalt	389	0	0	84	21.6	305	78.4	0	119
Oak Bay	242	0	0	71	29.3	171	70.7	0	86
Delta	1,857	7	.4	406	21.9	1,444	77.7	8	550
Matsqui	1,248	6	.5	380	30.4	862	69.1	6	541
New Westminster	2,338	4	.2	474	20.3	1,860	79.5	4	618
West Vancouver	1,313	5	.4	312	23.8	996	75.8	5	428
Nelson	279	0	0	48	17.2	231	82.8	0	60
Port Moody	443	0	0	101	22.8	342	77.2	0	147
TOTALS	37,248	83	.2	6,467	17.4	30,698	82.4	92	8,685

1982 Traffic Accidents by Police Jurisdictions—Courtenay Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Alert Bay	40	0	0	3	7.5	37	92.5	0	3
Campbell River (Rural)	239	1	.4	65	27.2	183	72.4	1	109
Campbell River Municipal)	574	3	.5	115	20.1	456	79.4	3	157
Comox	167	0	0	38	22.8	129	77.2	0	56
Courtenay (Rural)	631	6	.9	174	27.6	451	71.5	7	284
Courtenay (Municipal)	514	1	.2	93	18.1	420	81.7	1	130
Gold River	76	0	0	20	26.3	56	73.7	0	37
Parksville	645	5	.8	204	31.6	436	67.6	6	290
Port Alberni (Rural)	275	4	1.4	80	29.1	191	69.5	4	120
Port Alberni (Municipal)	485	1	.2	84	17.3	400	82.5	2	126
Port Alice	56	0	0	11	19.6	45	80.4	0	20
Port Hardy	261	1	.4	51	19.5	209	80.1	1	69
Port McNeill	116	2	1.7	25	21.6	89	76.7	2	58
Powell River (Rural)	111	2	1.8	48	43.2	61	55.0	2	61
Powell River (Municipal)	265	1	.4	60	22.6	204	77.0	1	77
Quadra Island	39	1	2.6	6	15.4	32	82.0	1	9
Sayward	67	1	1.5	17	25.4	49	73.1	2	26
Tahsis	88	0	0	26	29.5	62	70.5	0	42
Tofino	53	0	0	5	9.4	48	90.6	0	7
Ucluelet	147	1	.7	42	28.6	104	70.7	1	65
TOTALS	4,849	30	.6	1,167	24.1	3,652	75.3	34	1,746

1982 Traffic Accidents by Police Jurisdictions—Other Police Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
National Harbours Board	24	0	0	2	8.3	22	91.7	0	2
Military Police	46	1	2.2	7	15.2	38	82.6	1	13
TOTALS	70	1	1.4	9	12.9	60	85.7	1	15
Unknown									75

DRIVER IMPROVEMENT PROGRAM

The Driver Safety and Improvement Section of the Driver Licence Division continued the screening of unsatisfactory driving records, to ensure that drivers whose actions become hazardous as the result of alcohol involvement and other dangerous driving practices are either corrected or removed from the highways.

Summary of Action Taken Under Driver Improvement Program - 1982

Driving Records Reviewed	59,460
Warning Letters	76,682
Probations	12,996
Interviews Conducted in Victoria	808
Driver Licence Prohibitions	40,231
Reason for Prohibitions	
Section 90 (82) (Court Prohibition)	393
Section 82/8 (Criminal Code Charges Involving Death)	11
Section 85 (83) (Prohibition by Superintendent: Fitness and Ability)	672
Section 84 (87) (Unsatisfied Judgment)	34
Section 86 (88) (Prohibition by Superintendent: Unsatisfactory Driving Record	11,045
Section 92 (Automatic Prohibition)	20,393
Section 92/1/3 (3 Year Prohibition for Failing to Stop for a Peace Officer)	10
Section 94 (Prohibition as a Result of a Suspension Outside B.C.)	115
Section 214 (24 Hour Prohibition)	7,558
TOTAL	40,231
Alcohol Related Offences	19,285
Total of All Criminal Offences Received	20,225
Total of All Offences Recorded	594,536
Juvenile Offences Reported	3,757

Analysis of Suspensions, Probations and Warning Letters by Age Group for 1982, for All Drivers

Age	Section 82/8 MVA	Section 84 MVA (87)	Section 85 MVA (83/1)	Section 86 MVA (88)	Section 90 MVA (82)	Section 92 MVA	Section 92/1/3 MVA	Section 94 MVA (86)	Section 214	Total	Warning Letters	Probation
16	0	0	2	11	12	21	0	0	57	103	93	0
17	0	0	4	92	36	214	1	1	192	540	1,719	148
18	1	0	7	523	20	601	0	3	396	1,551	4,257	873
19	2	0	7	1,278	23	990	2	6	550	2,858	4,933	1,335
20	1	2	4	1,682	28	1,189	2	5	563	3,476	4,775	1,396
21-25	2	3	33	4,546	87	4,904	2	22	1,909	11,508	19,690	4,601
26-30	0	13	38	1,357	64	3,600	2	23	1,247	6,344	13 068	2,120
31-35	0	8	41	638	44	2,590	0	17	870	4,208	9,695	1,148
36-40	3	3	29	347	21	1,833	0	9	592	2,837	6,731	671
41-45	2	2	26	220	14	1,368	0	10	395	2,037	4,252	314
46-50	0	3	30	138	11	1,058	1	8	263	1,512	2,705	176
51-55	0	0	41	92	12	873	0	5	215	1,238	2,048	115
56-60	0	0	40	74	10	573	0	4	152	853	1,314	46
61-65	0	0	24	20	6	338	0	0	81	469	729	33
66-70	0	0	36	19	3	181	0	1	47	287	405	12
71-75	0	0	37	7	1	51	0	1	19	116	168	6
76-80	0	0	44	0	1	9	0	0	3	57	69	2
81-85	0	0	32	0	0	0	0	0	4	36	26	0
86-90	0	0	168	1	0	0	0	0	0	169	4	0
91-95	0	0	24	0	0	0	0	0	0	24	1	0
96 & over	0	0	3	0	0	0	0	0	0	3	0	0
Unknown	0	0	2	0	0	0	0	0	3	5	0	0
TOTAL	11	34	672	11,045	393	20,393	10	115	7,558	40,231	76,682	12,996

* As of September 1, 1982, the Motor Vehicle Amendment Act repealed the sections indicated in brackets and replaced them as noted.

Driver Training School Statistics
Licence Issuing Period January 1, 1982 to December 31, 1982

Issuances

	Schools	Operators	Instructors
Licences Issued	100	96	363
Terminations	7	5	50
Suspensions	0	0	1
Reinstatements	0	0	1
Total Active Licences as of December 31, 1982	93	91	312

Instructor Examinations Conducted

Written Examinations	
Passed	108
Failed	76
TOTAL	184
Practical Examinations	
Passed	82
Failed	17
TOTAL	99

Temporary Permits

Original Permits Issued	105
Temporary Instructors as of December 31, 1982	5

$500 Security Bonding

Bonded by Surety	59 x $500 =	$29,500
Security on Deposit (Bond or Term Deposit)	19 x $500 =	$9,500
Security on Deposit (Cash)	22 x $500 =	$11,000
TOTAL SURETY & SECURITY VALUE		$50,000

Revenue

School Licences	100 x $25 =	$2,500
Operator's Licences	96 x $10 =	$960
Instructor's Licences	359 x $5 =	$1,795
TOTAL		$5,255

Inspections Conducted

Driver Training Schools	140

THE CERTIFICATION PROGRAM

The Driver Certification Program is offered to persons, schools, firms and businesses involved in the transportation and trucking industry. The privilege of certifying drivers is granted to those companies who meet the standards of the program as set out by the Superintendent of Motor Vehicles.

There are 135 recognized authorities currently under the Certification Program in the Province.

During 1982, there was 23 liaison visits to recognized authorities conducted by supervisory examiners of the special programs staff.

Three recognized authorities were withdrawn and 6 new companies were accepted into the Program.

INDUSTRIAL ROADS

The Motor Vehicle Department assumed the responsibility of administering the Highway (Industrial) Act on July, 1980. All drivers of unlicenced vehicles on private Industrial Roads are now licenced by the Superintendent of Motor Vehicles.

During 1982, the Superintendent issued the following Air Tickets and permits:

Original Air Tickets	75
Duplicate Air Tickets	12
Renewal Air Tickets	439
Temporary (60 day) Permits	18

As of December 31, 1982 there were 6,926 licenced off highway drivers.

REPORT OF DIRECTOR OF STANDARDS AND COMPLIANCE

P. Toogood, P. Eng.

The Director of Standards and Compliance directs the activities of the Motor Vehicle Inspection Division, the Commercial Transport Division, the Industrial Road Vehicle Program and the Standards Development Program.

VEHICLE INSPECTION DIVISION

In 1982 there were 620,842 vehicles inspected in the Victoria, Nanaimo, Vancouver, Richmond and Burnaby inspection stations. Out of this number 146,001 vehicles did not meet the standards and were rejected, and, of these, 419 were in such poor condition that they were taken off the highway.

During this period, the inspection station staff also inspected 1,362 salvaged vehicles and those approved were issued a Certificate of Mechanical Conditions.

There were 170 incident investigations conducted by vehicle inspectors in 1982.

The staff of the inspection stations also supervise and report on the 45 authorized inspection stations that have been established. There were 7,394 vehicles inspected and approved by the authorized stations.

During 1982, there were 99 permits issued for flashing lamps; 15 permits were issued to allow the combined installation of sirens and flashing red lamps and five permits were issued for the installation of theft alarms.

During 1982, there were 1,723 school bus renewal permits issued and 134 permits were issued for new vehicles.

Critical item roadside inspections were conducted periodically during 1982 throughout the Province. The number of vehicles inspected and rates of rejection are as follows:

Roadside Check Period: January 1, 1982 to December 31, 1982

Number of vehicles inspected	3,356
Number of vehicles approved	1,102 = 33%
Number of vehicle which require repair	2,008 = 60%
Number of vehicles removed from road	246 = 7%

SUMMARY OF VEHICLE INSPECTIONS - 1982

Inspection Station	Approved	Rejected	Percentage Rejected	Inspections Conducted
VICTORIA				
1982	108,657	30,529	21.9	139,186
1981	108,898	31,186	22.3	140,084
VANCOUVER				
1982	115,244	36,565	24.1	151,809
1981	101,486	37,022	26.7	138,508
RICHMOND				
1982	89,941	24,569	21.5	114,510
1981	82,926	26,462	24.2	109,388
BURNABY				
1982	129,776	43,528	25.1	173,304
1981	119,880	44,718	27.2	164,598
NANAIMO				
1982	31,223	10,810	25.7	42,033
1981	27,987	10,356	27.0	38,343

Notices requiring the owner to present his motor vehicle for inspection were mailed to 442,904, of whom 267,069 required a second notice.

During the inspection of motor vehicles, it was found that 146,001 did not meet the required safety standards and were rejected. The total number of defects found was 293,722 or two defects for each rejected vehicle.

Annual Motor Vehicle Inspection–Summary of Vehicle Inspection
January 1, 1982 – December 31, 1982

	Inspected and Approved					Reinspected and Approved					Free Approved					Total Approved
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	173,687	86,992	34,406	10,256	305,341	23,721	32,724	17,161	6,867	80,473	525	395	216	56	1,192	387,006
Commercial	27,525	14,599	4,509	1,373	48,006	7,556	7,888	2,937	1,042	19,423	292	104	37	20	453	67,882
Motorcycle	5,243	544	243	10	6,040	359	119	27	-	505	40	9	-	-	49	6,594
Utility Trailer	337	205	70	66	678	131	110	30	45	316	1,916	1,487	1,398	750	5,551	6,545
Motorhome	1,847	1,338	434	46	3,665	429	641	198	31	1,299	13	10	-	-	23	4,987
Commercial Trailer	552	314	313	190	1,369	147	151	20	102	420	18	-	9	11	38	1,827
Total	209,191	103,992	39,975	11,941	365,099	32,343	41,633	20,373	8,087	102,436	2,804	2,005	1,660	837	7,306	474,841

	Inspected and Rejected					Reinspected and Rejected					Free Rejected					Total Rejected
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	30,550	42,709	24,322	9,437	107,018	1,084	2,098	1,834	563	5,579	94	144	147	117	502	113,099
Commercial	9,173	9,766	4,321	1,498	24,758	581	864	306	155	1,906	128	130	55	39	352	27,016
Motorcycle	589	252	110	10	961	12	22	-	-	34	10	-	-	-	10	1,005
Utility Trailer	211	176	74	52	513	22	52	33	9	116	601	462	450	219	1,732	2,361
Motorhome	604	842	279	20	1,745	20	31	10	17	98	-	-	-	-	-	1,843
Commercial Trailer	217	168	127	66	578	11	40	-	-	51	9	-	20	19	48	677
Total	41,344	53,913	29,233	11,083	135,573	1,730	3,127	2,183	744	7,784	842	736	672	394	2,644	146,001
Percent	16.5	34.1	42.2	48.1	27.1	5.1	7.0	9.7	8.4	7.1	23.1	26.9	28.8	32.0	26.6	23.5
Presented for Inspection	250,535	157,905	69,208	23,024	500,672	34,073	44,760	22,556	8,831	110,220	3,646	2,741	2,332	1,231	9,950	620,842

AGE CODES: Age 1 - 1978 and later; Age 2 - 1973 to 1977; Age 3 - 1968 to 1972; Age 4 - 1967 and earlier.

Condemned Vehicle Certificates = 419

CAUSES OF REJECTION
All Inspection Stations

No.	Vehicle Defect Cause	Model Year				Total
		Age 1	Age 2	Age 3	Age 4	
1	Motor vehicle licence	734	617	289	131	1,771
2	Number plates	1,098	1,656	932	423	4,109
3	Plate lamp	2,712	6,032	3,843	1,692	14,279
4	Tail lamps	1,845	2,989	1,991	1,022	7,847
5	Stop lamps	3,613	5,230	3,326	1,730	13,899
6	Turn signals	2,581	4,410	3,612	1,952	12,555
7	Reflectors	572	729	504	334	2,139
8	Horn	855	1,563	1,044	580	4,042
9	Windshield wipers	375	1,139	1,105	467	3,086
10	Loft Window-raiser	275	366	455	201	1,297
11	Doors, body hood	827	2,811	3,627	1,775	9,040
12	Bumper, mudflaps	377	740	768	388	2,273
13	Headlamps	8,494	11,672	9,987	4,260	34,413
14	Identification lamps	1,060	1,083	436	215	2,794
15	Spot lamps	1,887	950	425	218	3,480
16	Fog lamps	574	1,807	1,326	513	4,220
17	Auxiliary lamps	790	722	287	146	1,945
18	Wheel alignment	3,664	3,763	2,044	1,010	10,481
19	Steering mechanism	5,444	10,170	7,167	3,680	26,461
20	Tires, wheels	5,515	9,272	6,091	2,253	23,131
21	Fuel system	217	647	448	308	1,620
22	Exhaust, muffler	7,188	12,478	6,928	2,878	29,472
23	Service brakes	6,877	8,439	5,454	2,251	23,021
24	Pedal reserve	739	1,139	1,084	641	3,603
25	Brake connections	5,343	9,191	3,863	1,276	19,673
26	Air or vacuum	328	549	252	101	1,230
27	Vehicle noise	137	203	169	50	559
28	Parking brake	3,092	4,572	2,653	997	11,314
29	Visibility	3,658	4,435	2,530	779	11,402
30	Driver seat belts	563	1,288	858	292	3,001
31	Miscellaneous	2,090	1,708	1,268	499	5,565
	GRAND TOTALS	73,524	112,370	74,766	33,062	293,722

AGE CODES: Age 1 - 1978 and later; Age 2 - 1973 to 1977;
Age 3 - 1968 to 1972; Age 4 - 1967 and earlier.

AUTHORIZED INSPECTION STATIONS

In addition to the Government operated stations, there are 45 privately owned "Authorized Inspection Stations", including 5 new stations authorized during 1982.

Three of the authorized inspection stations are able to inspect all types of vehicles, and 42 are authorized to inspect trailers only.

A total of 7,394 vehicles were inspected and approved by the authorized inspection stations during 1982.

The statistics for these inspections are as follows:

Summary of Vehicle Inspection Results
by Vehicle Configuration and Model Year
All Authorized Inspection Stations - 1982

	Inspected and Approved				
	Age 1	Age 2	Age 3	Age 4	Total
Passenger	622	293	11	1	927
Commercial	793	634	57	14	1,498
Motorcycle	25	6	-	-	31
Utility Trailer	145	6	7	8	166
Motorhome	1	-	-	-	1
Commercial Trailer	2,089	1,314	915	453	4,771
Total	3,675	2,253	990	476	7,394

ACCIDENT INVESTIGATION AND TESTIMONY

Mechanical examinations of 170 vehicles which were involved in fatal or serious accidents were conducted to determine if standards of safety and repair were being met. These examinations provided extensive support to police agencies, during formal judicial proceedings, where expert testimony was frequently required for the evaluation of technical evidence. Motor Vehicle Inspectors also appeared in court, as expert witnesses, on 104 days during 1982 in order to give testimony on their findings of the vehicle's condition.

RANDOM ROADSIDE CHECKS

In cooperation with the R.C.M.P. and other enforcement agencies, mechanical examinations were made of randomly selected commercial vehicles to determine their conformance with the standards of safety, maintenance, and repair (province-wide).

These random roadside checks were responsible for checking 3,356 commercial vehicles during 1982, of which 2,008 (60%) were in need of repairs. This program was responsible for removing 246 (7%) commercial vehicles from service due to critical mechanical defects.

British Columbia entered into two extra-provincial agreements during the past year which extend the influence of random roadside checks. Several provinces, and many American states, have joined British Columbia in agreeing on the criteria for mechanically acceptable vehicles, and a common identification method. Thus our roadside inspection results are accepted in other jurisdictions, resulting in less down time for the commercial vehicle operator; and inspections conducted in other jurisdictions assure us that our minimum standards are being met.

PERMITS FOR FLASHING RED AND AMBER LAMPS, SIRENS, THEFT ALARMS AND FLASHING HEADLAMPS

The Superintendent may, under provisions of the Motor Vehicle Act Regulations, issue permits to allow a vehicle to be equipped with a flashing lamp. The regulations specify that certain emergency vehicles, tow cars and pilot cars may be so equipped without obtaining permits. The permits are required for vehicles such as public utility vehicles which must stop on a highway to repair power or telephone lines. In each case, the permit is issued where a hazard exists and only with the approval of the local enforcement agency.

From January 1, 1982 to December 31, 1982, 90 permits for flashing amber lamps and 9 permits for flashing red lamps were issued. In addition, 15 permits were issued to allow the combined installation of sirens and flashing red lamps on vehicles. These vehicles were usually ambulances or the personal vehicles of the chief of a volunteer fire department in a small community.

A total of five permits were issued for the installation of theft alarms in vehicles.

SCHOOL BUSES

Control over the use and operation of school buses engaged in the transportation of students to and from schools in the Province is the responsibility of the Superintendent of Motor Vehicles. The control extends to the setting of minimum standards for the construction and maintenance of school buses and provides for their periodic inspection. These inspections are carried out by Regional Inspectors located at Smithers, Prince George, Dawson Creek, Courtenay, Kelowna, Kamloops, Cranbrook, Williams Lake, and Chilliwack. School buses in Victoria, Greater Vancouver, and Greater Nanaimo areas are inspected at the designated Vehicle Inspection Station, or by an inspector from the station.

From January 1, 1982 to December 31, 1982, the number of permits issued for vehicles to be used as school buses was 1,723 renewal permits and 134 permits for new vehicles for a total of 1,857 as compared to 1,686 for the period of January 1, 1981 to December 31, 1981. Of these permits issued, 27 were cancelled as the result of the sale and transfer of vehicle or of poor mechanical condition.

From January 1, 1982 to December 31, 1982, school buses were involved in 97 accidents of which 74 resulted in property damage only. Five students and 20 persons other than students were injured in 23 injury accidents. There was no fatal accident involving a school bus during this period.

COMMERCIAL TRANSPORT DIVISION

This Division operates 40 permanent weigh scales throughout the Province, located at strategic points along the main highway system. Thirty-six of the scales are manned on a regular basis with certain border scales being operated on a 24-hour seven-day week basis.

The Division also has 19 portable patrols to monitor commercial vehicles in areas where there are no permanent weigh scales. Portable patrols also monitor logging trucks through weight data compiled and recorded by Ministry of Forests personnel. During 1982 approximately 388,886 loads were monitored through this procedure.

In addition to monitoring and checking commercial vehicles, weighmasters issue various types of permits, such as temporary operation, non-resident, motive fuel use, highway crossing, restricted route, overweight and oversize.

They are also required to enforce the various statutes pertaining to the operation of commercial vehicles and are empowered to lay charges under the Commercial Transport Act, Motor Carrier Act, Motor Vehicle Act, Highway Act, and the Motive Fuel Use Tax Act. During 1982, new weigh scale facilities were constructed near Parksville and Vernon. The facilities south of Parksville were constructed in conjunction with the realignment and upgrading of Highway 19 and are located on each side of the highway to provide for improved highway safety. The southbound scale which was designed to accommodate two-way traffic will allow operational cost to be kept to a minimum by monitoring all traffic during periods of low traffic volume.

The Vernon facility is located on Highway 97 north of the city. This weigh scale facility is a new concept in that it is located in the highway median. This new design has one building and two scale decks to monitor traffic in both directions, thus eliminating conflicting traffic within the scale site. This design also eliminates the cross traffic situation while providing full service with a minimum of staff.

Again to improve highway safety, electronic "OPEN/CLOSED" signs have been installed at or in advance of newer weigh scale facilities. These signs are highly visible to the commercial vehicle operator and therefore provide adequate forewarning to the operator to alleviate last minute manoeuvres.

New electronic weigh scales were installed at the Terrace and Kelowna facilities which will improve efficiency through the provision of larger scale decks and the latest in weighing technology.

Statistics for the Division for the year 1982 are as follows:

Commercial vehicles checked (excluding logging trucks)	2,142,453
Prosecutions entered	14,290
Violation notices (warnings) issued	6,561

PERMITS ISSUED

Term, short term and single trip (oversize and/or overweight)	50,024
Nonresident	41,812
Temporary Operation	27,933
Motive Fuel	17,675
Restricted Route	4,504
Highway Crossing	1,001
Special Temporary	382
I.C.B.C. (Nonresident and Temporary Operation)	35,373
C.A.V.R.	780
TOTAL PERMITS ISSUED	179,484

REVENUE COLLECTED, 1982 - (Approximate)

Oversize and Overweight Permits	$1,311,619
Nonresident Permits	1,655,427
Temporary Operation Permits	211,314
Restricted Route Permits	161,023
Highway Crossing Permits	37,600
Special Temporary Permits	1,146
Motive Fuel Permits	539,433
I.C.B.C. Insurance	506,812
C.A.V.R.	3,928
TOTAL REVENUE	$4,428,302

INDUSTRIAL ROAD VEHICLE PROGRAM

Equipment

Section 13 of the Highway (Industrial) Act requires all vehicles operated on industrial roads to be equipped with approved air brake systems. The most common industrial air brake system is referred to as the L-75 system.

Vehicle manufacturers and dealers were visited to review their procedures for certifying brake systems, to participate in meetings and lectures, and to conduct staff training courses. In addition, field trips were made throughout the province to inspect the mechanical condition of in-use vehicles.

Registration of Accidents

The Motor Vehicle Department has been working to resolve the confusion regarding notification of Industrial Road accidents with the Workers' Compensation Board, the Ministry of Forests, and the R.C.M.P. In cooperation with these agencies, the Department issued a letter to all logging companies and log-haul associations, which summarized the numerous requirements for accident notification within the log-haul cycle.

Also, the Motor Vehicle Department established a procedure with the R.C.M.P. whereby the Industrial Roads Inspector will receive a copy of their industrial road accident investigation reports.

During the 1982 period, 41 accident reports were received, of which two were fatal, and 18 were injury producing. Property damage was estimated at $1,900,000.

Fourteen accident investigations were conducted by the Department, with subsequent charges laid to six of them.

Certified Drivers

Endorsement 18 and 19 on a drivers licence allows the operation of single and combination air braked vehicles respectively. During 1982, there were 456 No. 18 and No. 19 restrictions issued.

STANDARDS DEVELOPMENT PROGRAM

During 1982, the Province joined both the Canada Vehicle Safety Alliance (of the Canada provincial jurisdictions), and the Commercial Vehicle Safety Alliance (of the western American states). The monogram CVSA is applied to both programs. CVSA is a program in which participating jurisdictions undertake to inspect commercial vehicles at roadside checkpoints in accordance with an agreed minimum schedule. They further undertake to recognize the CVSA decal applied by another participating jurisdiction within the expiry life of the decal (three months).

The effect of this program is to produce uniformity of inspection requirements for roadside checks, among the participating jurisdictions, and at the same time to reduce the number of re-inspections carried out on commercial vehicles recently inspected in another participating jurisdiction.

Schedule 11 of Division 25 of the British Columbia Motor Vehicle Regulations was amended in those respects necessary to achieve the required uniformity. The program permits participating jurisdictions to apply standards of inspection that are more severe than the agreed minimum schedule.

REPORT OF THE DIRECTOR OF ADMINISTRATION AND SAFETY

J.F. Phillips

The Director of Administration and Safety directs the Administration and Safety Branch which encompasses a general administrative responsibility with the functions of safety and the transportation of dangerous goods.

Road user safety programs are correlated through the Administration and Safety Branch. The support and direction of these programs is directed to highway safety concerns throughout British Columbia. In the past years, the program to have the most notable impact on the public safety has been the mandatory seat belt legislation. In the year ending December 31, 1982, there were 36,596 seat belt convictions. These convictions were in various areas of the Province and indicate the cooperation received from the law enforcement agencies. During 1982, an introductory program to child restraints was developed and is being distributed to various organizations in the Province. The Motor Vehicle Department believes that the seat belt legislation has contributed noticeably to the decrease in the severity of accidents.

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POOR

QUALITY

ORIGINAL